ORDER NO.VMD9812065C8

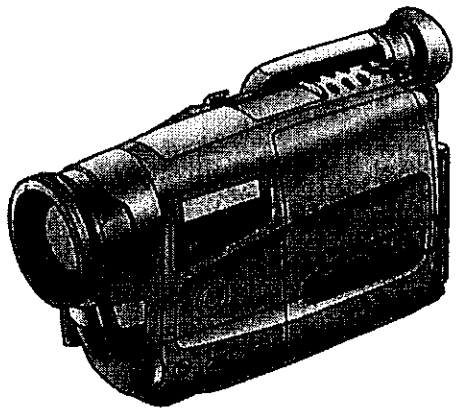
Service Manual

VHS-C Movie

Panasonic VHS C HQ PAL

NV-RX14B
NV-RX17EG/EN/E
NV-RX18EG/B/EN

DL-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption; 4.7 W (Battery operation)	VIDEO	HEADS: 4 Rotary heads, 1 flying erase head
			OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75 Ω unbalanced
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL	AUDIO	HEADS: 1 Stationary head (Normal-Mono)
			OUTPUT: PHONO CONNECTOR; -6 dB, 47kΩ loaded/less than 1 kΩ
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)		
TAPE SPEED	SP mode : 23.3 mm/s LP mode : 11.7 mm/s (Except NV-RX17EG/E, RX18EG) Record/Playback Time: SP mode : 45 min. with NV-EC45XG LP mode : 90 min. with NV-EC45XG (Except NV-RX17EG/E, RX18EG) FF/REW Time: less than 6.5 min. with NV-EC45XG	OPERATING TEMPERATURE	0-40 °C
		OPERATING HUMIDITY	10-80 %
		WEIGHT	Approx. 725 g (without Battery Pack)
		DIMENSIONS	90 (W) X 127 (H) X 255 (D) mm
CAMERA	PICK-UP ELEMENT: CCD (Change Coupled Device)	STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor (Except NV-RX14B, NV-RX18B) 1 pc. Shoulder Strap 1 pc. DC Output Cable 1 pc. Battery (Except NV-RX14B, NV-RX18B) 1 pc. AC Cord 1 pc. AV Cord 1 pc. Remote CTL 1 pc. Remote CTL Holder 1 pc. Battery Cover 1 pc. Button Battery
	STANDARD ILLUMINATION: 1,400 lux		
	MINIMUM REQUIRED ILLUMINATION: 0.5 Lux (Low Light Mode)		
	LENS: 22 : 1 Wide-angle Power Zoom Lens with Digital AI Auto Focus, Auto Iris, F1.6 (3.7-81.4 mm), Filter Diameter 43 mm		
	IMEGE SENSOR: 1/4 inch CCD Image Sensor		
	VIEWFINDER: 0.5 inch Electric View Finder		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 INTRODUCTION

1.1. INTRODUCTION1

This service manual contains technical information which will allow service personnel"s to understand and service this model.Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Note 1:

Adjustment procedure for Mechanism-Chassis is separate volume.

Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.

Order number for adjustment procedure of Mechanism-Chassis : VMD9412M130

Note 2:

These movie camera uses AC Adaptor is VSK0541.

VSK0541: Used by NV-RX14**B**, NV-RX17**EG/EN/ENH/E** and NV-RX18**EG/B/EN**

The Service manual for AC Adaptor is separate volume.

Order number for AC Adaptor-----VSK0541 (VW-AS7) : VMD9812066C8

1.2. INTRODUCTION2

Note 1:

NV-RX17EN

NV-RX17EN series has to versions depends on countries.

Detail as follows.

Model-No. (Version)	NV-RX17EN	NV-RX17ENH
PACKING CASE	VPG9752	VPG9753
AC CABLE	VJA0664	VJA0940

2 SERVICE CAUTION

2.1. EEPROM DATA FOR SPARE PARTS OF THE CAMERA/MAIN C.B.A.

- When the Camera/Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera"s suffix.
- Then, confirm and/or adjust the VTR and Camera adjustment one by one.

2.2. SERVICE EXTENSION CABLES.

- This model is required the following extension cables for all connections.
- And for more convenient service, prepare the S/S Zoom SW U. (VXU1487), the Camera OP. U. (VXU1521) and the CAM/VTR OP. U. (VXU1519) through a spare parts route.

2.2.1. In case of Flat cables.

- Use the following extension cables when checking or adjusting individual circuit boards.

Ref.	Part No.	Pin	Part name	Connection	Q"ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001-Mecha. Chassis	1	
(b)	VFK0670	18	Flat Cable	FP2002-Capstan Motor	1	
(c)	VFK0978	6	Flat Cable	PP6002-Mecha. Chassis	1	
(d)	VFK0929	12	Flat Cable	PP301-CCD	1	
(e)	VFK0980	9	Flat Cable	FP4001-A/C Head	1	
(f)	VFK0913	18	Flat Cable	FP701-Lens Unit	1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

How to use extension cables.

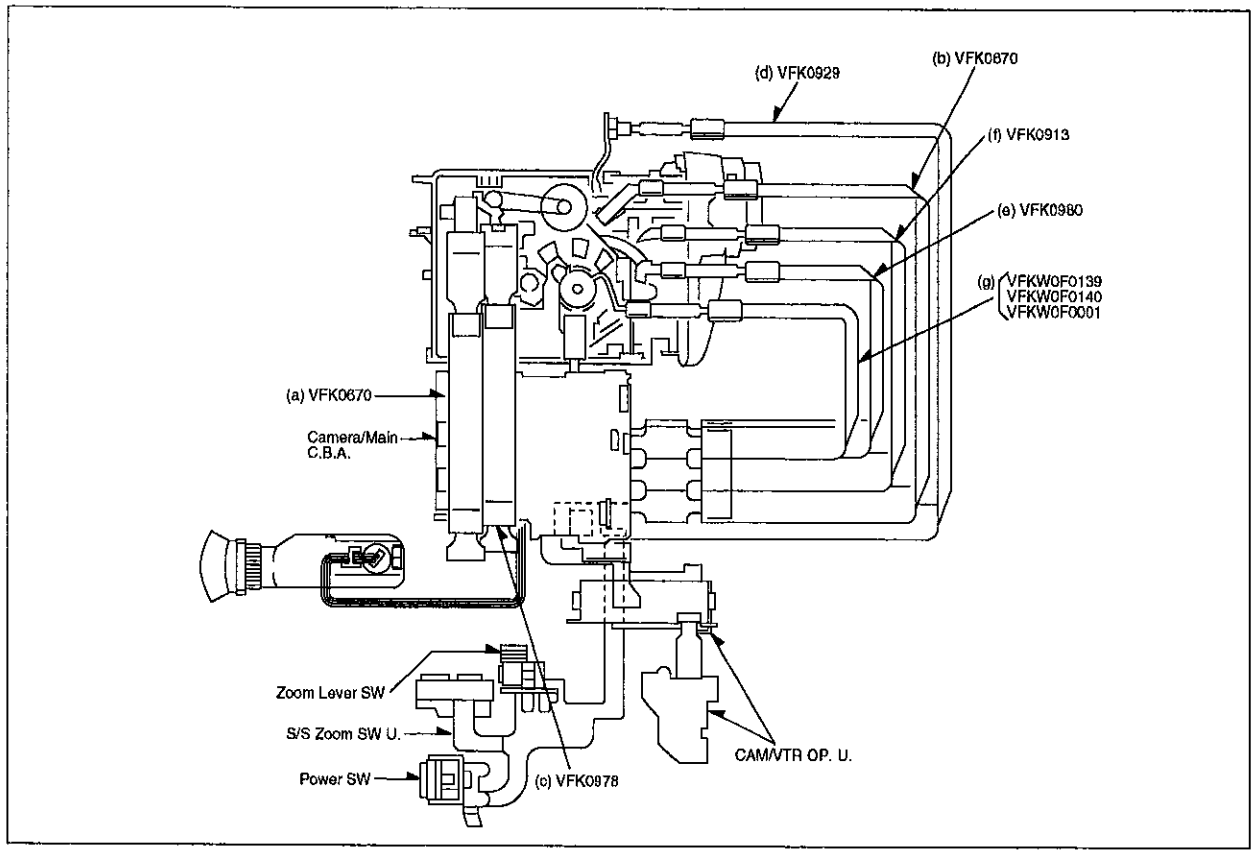


Fig. T1

2.2.2. In case of Tatsujin Cable.

· Use the following extension cables when checking or adjusting individual circuit boards.

Ref.	Part No.	Pin	Part name	Connection	Q"ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001-Mecha. Chassis	1	
	VFKW0F0056/0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0033	18	Attachment Connector	FP2002-Capstan Motor	1	
	VFKW0F0056/0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0128	6	Attachment Connector	FP6002-Mecha. Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0118	12	Attachment Connector	PP301-CCD	1	
	VFKW0F0117	12	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(e)	VFKW0F0132	9	Attachment Connector	FP4001-A/C Head	1	
	VFKW0F0131	9	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(f)	VFKW0F0111	18	Attachment Connector	FP701-Lens Unit	1	
	VFKW0F0112	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(g)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

How to use extension cables.

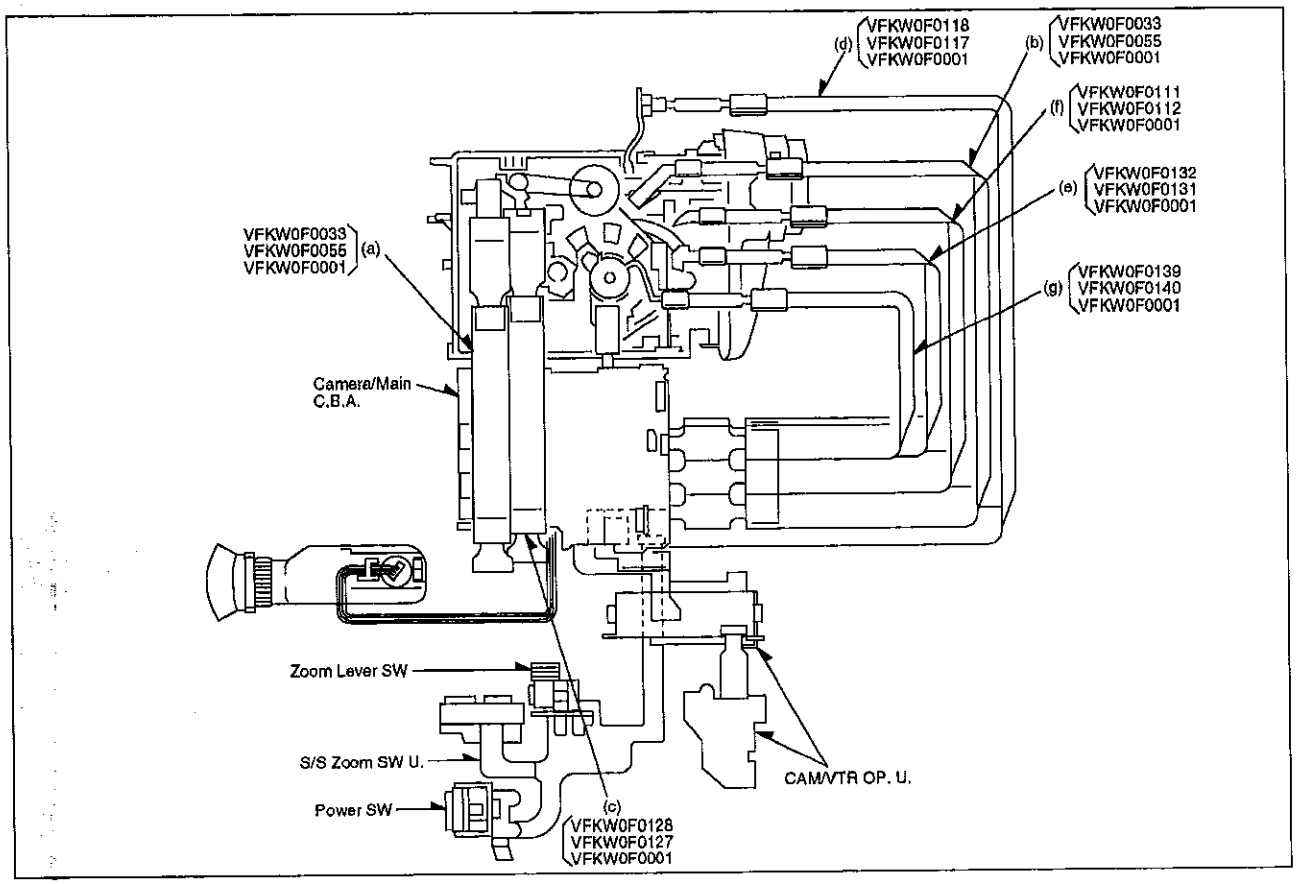


Fig. T2

2.2.3. Service Position for Movement of Mechanism.

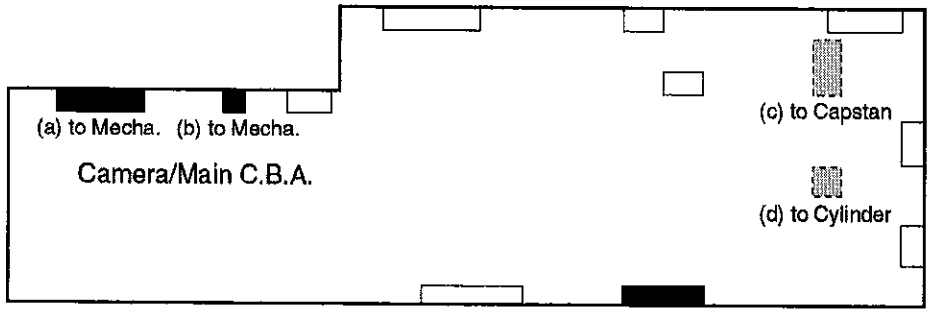
· Use the following extension cables when checking the Mechanism.

Ref.	Part No.	Pin	Part name	Connection	Q"ty	Remarks
(a)	VFK0670	18	Flat Cable	FP6001-Mecha. Chassis	1	
(b)	VFK0978	6	Flat Cable	FP6002-Mecha. Chassis	1	
(c)	VFK0670	18	Flat Cable	FP2002-Capstan Motor	1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	Included in Tatsujin-Kit
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

In case of Tatsujin Cable.

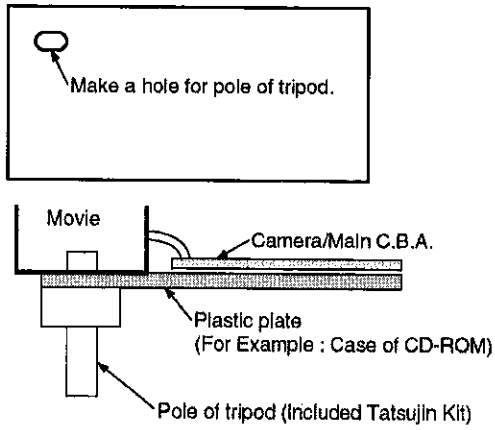
Ref.	Part No.	Pin	Part name	Connection	Q"ty	Remarks
(a)	VFKW0F0033	18	Attachment Connector	FP6001-Mecha. Chassis	1	Included in Tatsujin-Kit
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(b)	VFKW0F0128	6	Attachment Connector	FP6002-Mecha. Chassis	1	
	VFKW0F0127	6	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(c)	VFKW0F0033	18	Attachment Connector	FP2002-Capstan Motor	1	
	VFKW0F0055	18	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	
(d)	VFKW0F0139	7	Attachment Connector	FP2001-Cylinder	1	
	VFKW0F0140	7	Attachment Connector		1	
	VFKW0F0001	28	Common Cable		1	

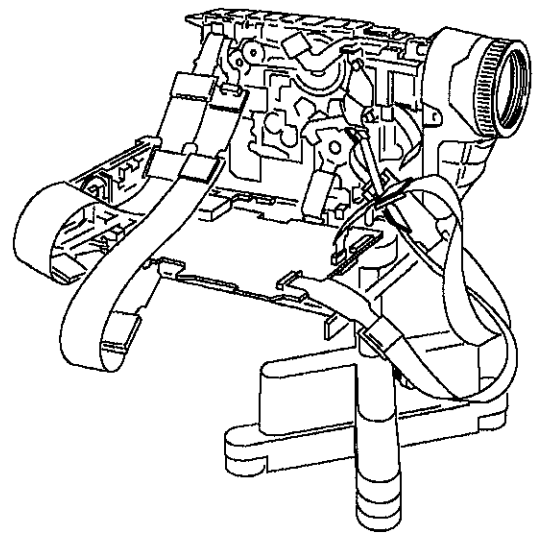
2.2.4. Service position for Movement of Mechanism.



2.3. SERVICE POSITION OF CAMERA/MAIN C.B.A.

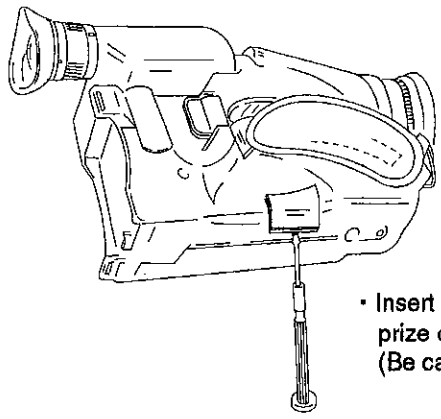
· Please prepare the following plastic plate to hold C.B.A. during checking it.


Make a hole for pole of tripod.
Movie
Camera/Main C.B.A.
Plastic plate
(For Example : Case of CD-ROM)
Pole of tripod (Included Tatsujin Kit)



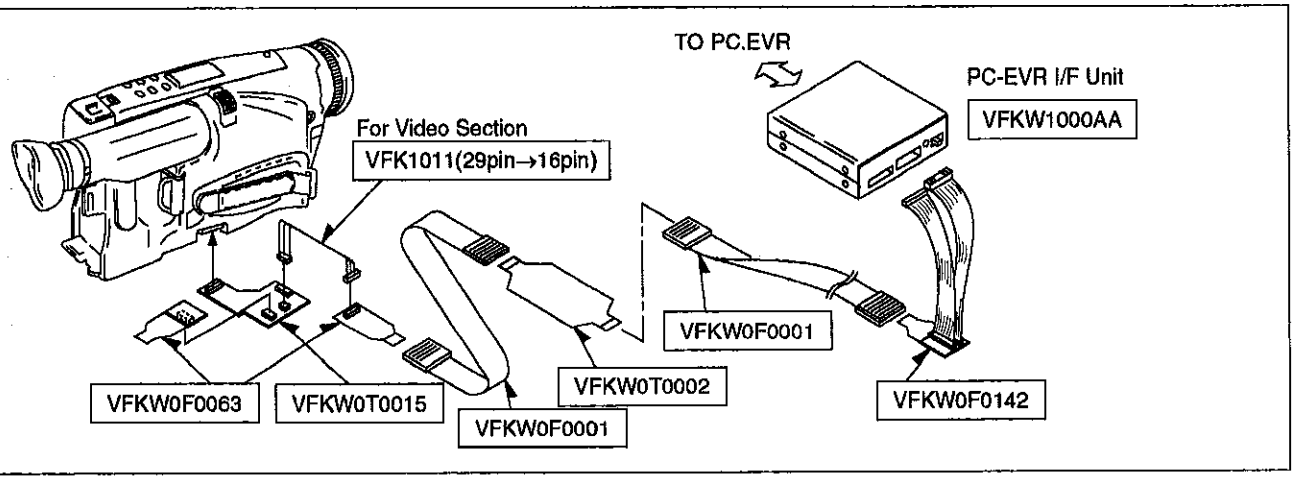
2.4. SET-UP FOR ADJUSTMENT OF TATSUJIN.

- For adjustments with Tatsujin, it is not necessary to open the side case.
- Just open the small cover on the side case (L) by a small screwdriver.



- Insert a small screwdriver to small hole on side case (L) and prize off the cover.
  (Be carefully for prevention of scratch on case)

- And insert the Extension Board and connect Tatsujin cable as follows



2.5. THE BUILT-IN LITHIUM BATTERY

2.5.1. Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery.

However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged.

This has occurred if the Indication in the Finder flashes when you turn on the Movie Camera. In this case, perform the following operations.

Indication in the Finder flash	

2.5.2. Charging the Built-in Lithium Battery and Other Required Operations

1. **Connect the AC Adaptor to the mains and to the Movie Camera.**
2. **Leave the Movie Camera turned off.**
   - Although charging the lithium battery is possible with the Movie Camera turned on or off, we recommend to keep it turned off to conserve energy.
3. **Leave the Movie Camera in this condition for approximately 4 hours.**
   - Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 1 month, charging for 26 hours (full charge) maintains it for approximately 1 year.
4. **Set the clock to the current date and time.**

2.6. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1. Remove the Rear Case Unit.
   (Remove the 1 Screw from Rear Case Unit)
2. Remove the Lithium Battery "ML2020" and then replace the new one. (See Fig. B1)

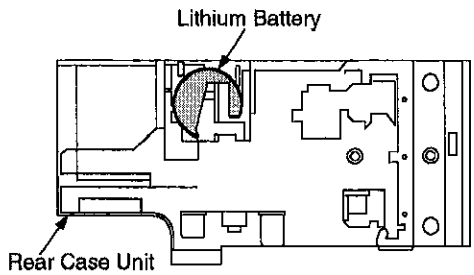


Fig. B1

Note:

The lithium battery is a critical component (Type No.: ML2020 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

3 SERVICE INFORMATION

3.1. SERVICE INFORMATION DISPLAY (GENERAL DESCRIPTION)

- This Movie Camera has SERVICE INFORMATION DISPLAY function which facilitates quick trouble-shooting.
- You can turn on the Service Information Display, by performing the following procedures.
- This causes the Service Information to be displayed on the EVF. (There are 4 kinds of SERVICE MODE, as shown below.) In the OSD Line Output Mode, service Information can also be viewed on the TV.

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
OSD Line Output MODE	· Checking the EVF information on the TV monitor.	DATE/TIME SET (TOP PANEL)	RESET (TOP PANEL)	DATE/TITLE (TOP PANEL)

MODE NAME	FUNCTION	How to turn it ON. (Push following keys simultaneously for at least 2 sec.)		
SERVICE MODE 1	· Remaining Battery A/D Value · Safety Device · Capstan/Cylinder Injuctions	DATE/TIME SHIFT (TOP PANEL)	RESET (TOP PANEL)	DATE/TITLE (TOP PANEL)

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 1, Push [DATE/TITLE] key. (TOP PANEL)
SERVICE MODE 2	· Reference Voltage A/D Value · Mechanism position · Serial key code	DATE/TITLE

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 2, Push [DATA/TITLE] key. (TOR PANEL)
SERVICE MODE 3	· ERROR CODE Display	DATE/TITLE

MODE NAME	FUNCTION	How to turn it ON. (After chosing SERVICE MODE 3, Push [DATE/TITLE] key. (TOP PANEL)
SERVICE MODE 4	· PG SHIFTER ADJUSTMENT	DATE/TITLE

3.2. ERROR CODE DISPLAY

When undesirable conditions occur, the "ERROR CODE" will automatically be displayed on the EVF, Aloso the CAMERA LED will flash for a short time, then the power will be turned off.
By turning on Service Mode 3, you can check to see what kind of undesirable condition occured, even after the ERROR CODE has disappeared. (To perform the Service Mode 3, do not disconnect the AC adaptor or battery pack, after undesiable condition occured.)
To clear the ERROR CODE, disconnect the AC Main Lead or the battery has been disconnected.

This movie camera has the built in Rechargeable Lithium Battery.
It maintain the operation of the built-in clock and error code for the Service Mode when the Movie camera turn off.
To clear the error code, make shoot the IC6003 pin 57 to GND for reset the IC6003.
Indication for built in clock return to initial condition make reset the IC6003.

NOTE1:

Contents of all Service Mode (Service Mode 1-Service Mode 4) same as privious models.
So we will issure Technical Information for Service Mode.
Order Number for this document is as follows.
Order Number for Technical Information : **VMD9512M138**

NOTE2:

Contents of all Service Mode (Service Mode 1- Service Mode 4) same as privious models.
We will issure Technical information for Service Mode.
But Service Mode 3 is Error code Display. It is important for Service.
So this service manual contain for this information.

3.3. SERVICE MODE 3

- After undesirable conditions occured, you can see what kind of error occured by turning on the Service Mode 3.
- When you turn on the service mode 3, the error code is displayed on EVF.
- Also the Camera LED is flashed according to Error code.

Display: (Example)

(SERVICE MODE 3)

F 05

F 05 — * Detected the Cylinder lock

Display position: (See Fig. 1)

0 : 0 0 0 0

- 0 : F or U
- 0 0 : 01~05, 10~11, 51,52
- 0 0 : Blank(No display)

(The position of linear time counter)

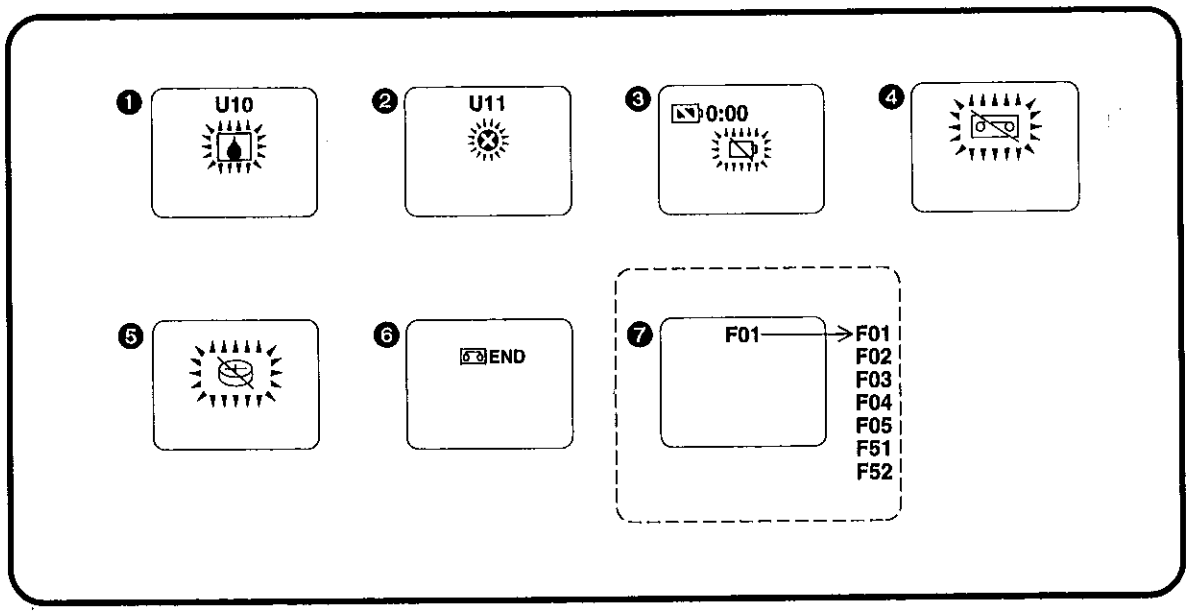
Display	Condition	The Power off timing
F01	T-REEL LOCK	After 1 minute (flashing the LED)
F02	S-REEL LOCK	
F03	UNLOADING LOCK	
F04	LOADING LOCK	
F05	CYLINDER LOCK	
F51	FOCUS MOTOR LOCK	
F52	ZOOM MOTOR LOCK	
U10	DEW DETECTION	After 18 minutes (flashing the LED)
U20	HEAD CLOGGING	Not turning off

Fig. 1 (Error Code)

Lock Condition	Power LED Flashing Timing
T-REEL LOCK (F01)	↔2.56 sec
S-REEL LOCK (F02)	↔0.16 sec
UNLOADING LOCK (F03)	
LOADING LOCK (F04)	
CYLINDER LOCK (F05)	
OTHERS (U10&U11)	Power LED is flashed at 1 Hz timing

Fig. J (LED Flashing Timing)

4 GENERAL DESCRIPTIONS



Indications

■ Warning/Alarm Indications

❶ Condensation

❷ Video Head Clogging

❸ Remaining Battery Power

When the remaining battery power is used up, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.

❹ Cassette

No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.

❺ Built-in Lithium Battery

The built-in Lithium Battery is exhausted. Charge it.

❻ End of the Tape

When the tape has reached its end, this indication appears. Insert a new cassette.

❼ Error Code

(Error codes are information for service personnel.)

If the [F] indication with a 2-digit number appears, a malfunction has occurred.

If the indicated error code is between [F01] and [F05], the Movie Camera will turn off automatically one minute after the [CAMERA] Lamp has started to flash.

If the indication is [F51] or [F52], the Movie Camera will not turn off automatically.

F01: Locked Take Up-Reel

F02: Locked Supply-Reel

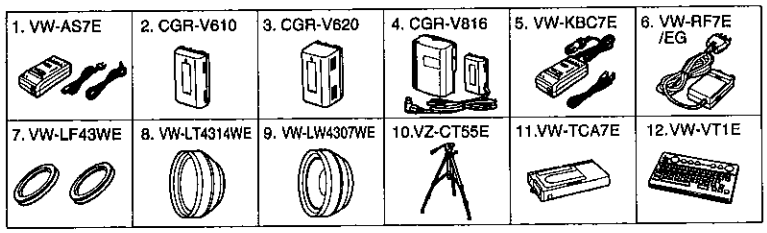
F03: Locked Unloading Mechanism

F04: Locked Loading Mechanism

F05: Locked Cylinder

F51: Locked Focus Motor

F52: Locked Zoom Motor

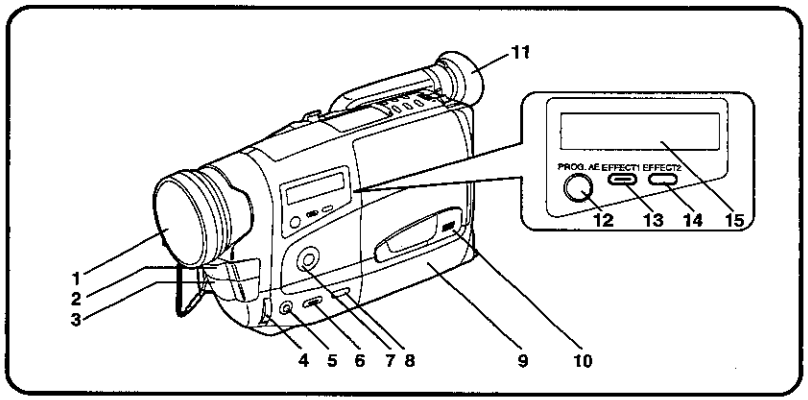


13. VZ-LDR10E 14.VW-SK11E

Optional Accessories

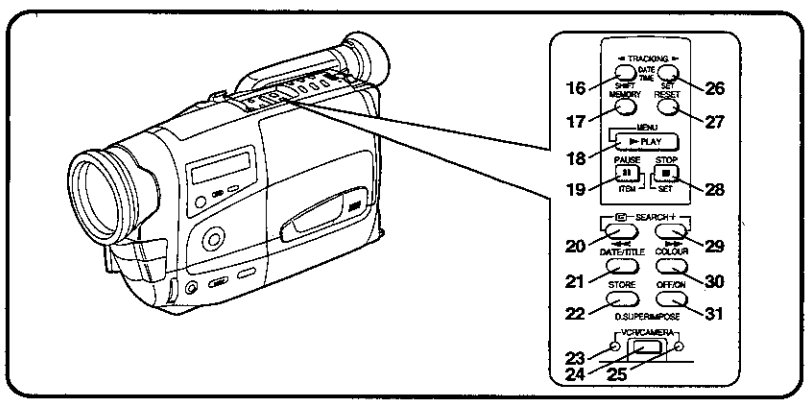
1. AC Adaptor
2. Battery Pack (Lithium-Ion)
3. Battery Pack (Lithium-Ion)
4. Battery Pack (Lithium-Ion)
5. Car Battery Charger
6. RF-Adaptor
7. Filter Kit
8. Tele Conversion Lens
9. Wide Conversion Lens
10. Tripod
11. Cassette Adaptor
12. Video Titler
13. IR/Video DC Light (Halogen & Infra-red) (It requires the Shoe Adaptor for attaching to the Movie Camera. With this Movie Camera, its infra-red beam emission function has no effect.)
14. Shoe Adaptor (for attaching the IR/Video DC Light)

Some accessories are not available in some countries.

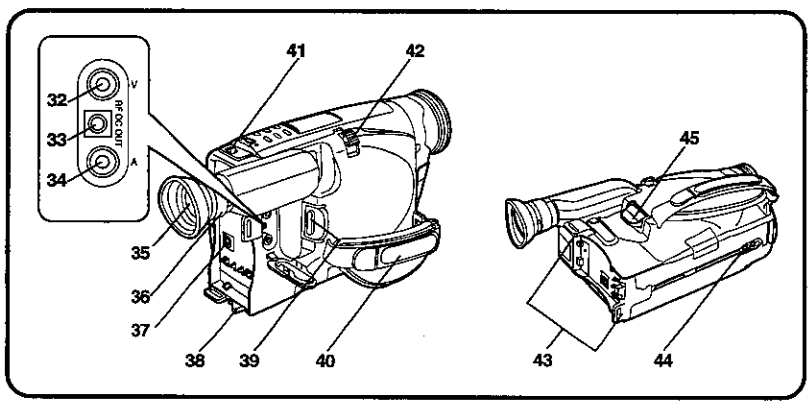


Controls and Components

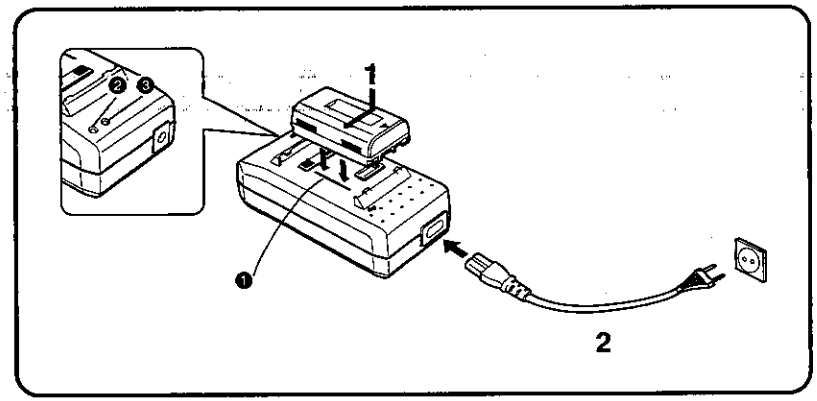
1 Lens Cap
2 White Balance Sensor
3 Microphone
4 Focus Dial
5 Focus Button [FOCUS]
6 Fade Button [FADE]
7 Backlight Button [BACKLIGHT]
8 White Balance Button [W.B]
9 Cassette Compartment
10 Cassette Compartment Lock Button [LOCK]
11 Eyecup
12 Auto Exposure Selector Button [PROG. AE]
13 Digital Effect 1 Button [EFFECT1]
14 Digital Effect 2 Button [EFFECT2]
15 Multi Info Window



16 Date/Time Shift Button [DATE/TIME/SHIFT]
Tracking Button [◄ TRACKING]
17 Memory Button [MEMORY]
18 Playback Button [PLAY]
Menu Button [MENU]
19 Pause Button [PAUSE]
Item Selector Button [ITEM]
20 Reverse Search Button [–SEARCH]
Rewind/Review Button [◄◄]
Recording Check Button [G]
21 Date/Time/Title Button [DATE/TITLE]
22 Digital Image Store Button [STORE]
23 VCR (Playback) Mode Lamp [VCR]
24 VCR/Camera Mode Selector Button [VCR/CAMERA]
25 Camera (Recording) Mode Lamp [CAMERA]
26 Date/Time Set Button [DATE/TIME/SET]
Tracking Button [TRACKING ►]
27 Tape Counter Reset Button [RESET]
28 Stop Button [STOP]
Item Set Button [SET]
29 Forward Search Button [SEARCH+]
Fast Forward/Cue Button [►►]
30 Colour Selector Button for Digital Image [COLOUR]
31 Digital Image Superimpose Button [OFF/ON]



32 Video Output Socket [V]
33 Radio Frequency DC Output Socket [RF DC OUT]
34 Audio Output Socket [A]
35 Finder
36 Eyepiece Corrector Ring
37 DC Input Socket [DC IN]
38 Battery Eject Lever [◄ BATTERY EJECT]
39 Recording Start/Stop Button
40 Grip Belt
41 Cassette Eject Lever [⏏ EJECT]
42 Zoom Lever [W • T]
43 Shoulder Strap Holders
44 Tripod Receptacle
45 Power Switch [POWER]



Charging the Battery

1 Attach the Battery.
- Align the Battery with line ❶ and push it in the direction of the arrow while holding it down.

2 Securely connect the AC Mains Cable to the AC Adaptor and an AC Mains Socket.
- The [POWER] Lamp ❷ lights and then the [CHARGE] Lamp ❸ flashes and charging starts.
- If the [CHARGE] Lamp ❸ does not flash even though the Battery is attached, remove the Battery and then re-attach it.

■ Charging Lamp [CHARGE]

Flashing:	During charging
Lit:	The Battery can already be used to operate the Movie Camera but it is not yet fully charged. (Approx. 30-minute battery charge)
Off:	The Battery is fully charged.

■ Removing the Battery

Slide it in the opposite direction of that indicated in step 1 above.

- Charge the Battery at a room temperature between 10°C and 30°C.
- When charging, do not connect the DC Input Cable to the AC Adaptor.
- During recording and charging, the Battery becomes warm. However, this is normal.
- If you charge the Battery when it is not yet discharged, the [CHARGE] Lamp ❸ may flash briefly and then go out. This indicates that the Battery is fully charged. Therefore, this is not an indication of a malfunction.

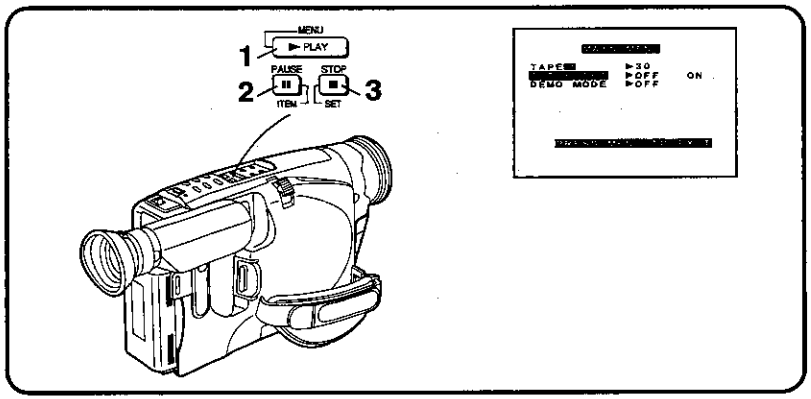
■ Charging Time and Maximum Continuous Recording Time in the Manual Recording Mode

Battery Model No.	Charging Time for a Full Charge	Max. Continuous Recording Time
CGR-V610 (supplied)	80 min.	120 min.
CGR-V620	145 min.	240 min.
CGR-V816	310 min.	480 min.

Battery Model No.	Approx. 30-Minute Charge	Max. Continuous Recording Time
CGR-V610 (supplied)	30 min.	50 min.
CGR-V620		
CGR-V816		

(The times shown in the above charts are approximations.)

Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 25°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperature reduces the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.



Using the Menu Screen

This Movie Camera displays the settings of various functions in Menus to make it easy to select the desired functions and settings.
Perform the following operations with the Movie Camera in the Camera Mode (the [CAMERA] Lamp lights) and in the Recording Pause Mode.

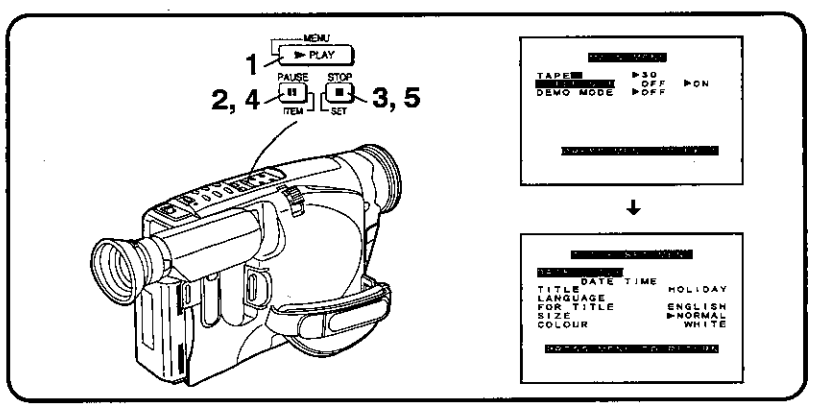
Using the Main Menu

1 Press the [MENU] Button.
- The [MAIN MENU] Menu appears.

2 Press the [ITEM] Button repeatedly to select the item to be set.

3 Press the [SET] Button repeatedly to set the desired mode for the selected item.

Exiting the Main Menu
Press the [MENU] Button.



Using the Title Menu

1 Press the [MENU] Button.
- The [MAIN MENU] Menu appears.

2 Press the [ITEM] Button repeatedly to select [TITLE SET].

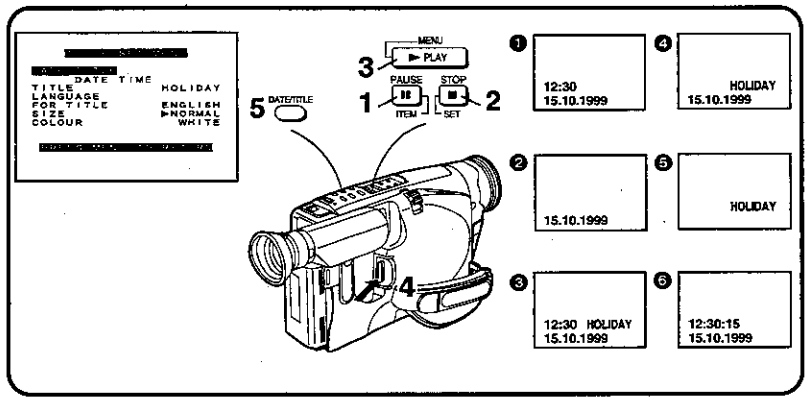
3 Press the [SET] Button to set to [ON].
- The [TITLE SET MENU] Menu appears.

4 Press the [ITEM] Button repeatedly to select the item to be set.

5 Press the [SET] Button repeatedly to set the selected item to the desired mode.

Exiting the Title Menu
Press the [MENU] Button once to return to the [MAIN MENU] Menu, and then press the [MENU] Button once more to exit the Menu.

- The settings that you have selected on the Menus are maintained when you turn the Movie Camera off. However, if you disconnect the power supply unit (Battery or AC Adaptor) from the Movie Camera before turning it off, the selected settings may not be maintained.
- If you connect the Movie Camera to a TV, the Menu can be displayed on the TV screen.



Recording with the Time and/or Date Superimposed in the Picture

After displaying the [TITLE SET MENU] Menu...

1 Press the [ITEM] Button repeatedly to select [DATE/TITLE].

2 Press the [SET] Button repeatedly until the desired indication appears on the Title Menu.

- The indications change in the order ❶ to ❻.
- ❶ Date and Time ⟶ ❷ Date ⟶
- ❸ Date, Time and Title ⟶ ❹ Date and Title ⟶
- ❺ Title ⟶ ❻ Date and Time with seconds ⟶
- After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed. To make it appear again, press the [DATE/TITLE] Button once.

3 Press the [MENU] Button twice to exit the Menu.

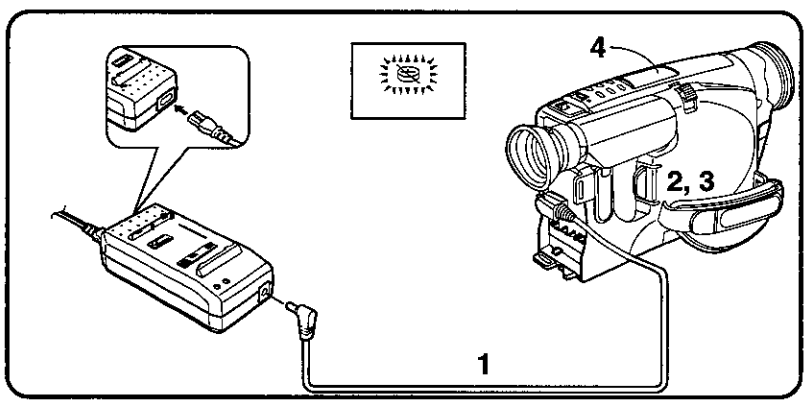
- The selected Date/Time/Title Indication appears.

4 Press the Recording Start/Stop Button to start recording.

■ Deleting the Date/Time/Title Indication

5 During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear.

Be sure to turn the Movie Camera off before removing the Battery or disconnecting the AC Adaptor. Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication stored in memory.



Charging the Built-in Lithium Battery

The internal clock works even when the Movie Camera is turned off, and it consumes power from the built-in lithium battery. When the Movie Camera is in operation, it automatically charges this battery. However, if the Movie Camera is not used for a very long time, the lithium battery can become discharged. This has occurred if the [ ] indication flashes when you turn on the Movie Camera. In this case, perform the following operations.

■ Charging the Built-in Lithium Battery and Other Required Operations

1 Connect the AC Adaptor to an AC mains socket and to the Movie Camera.

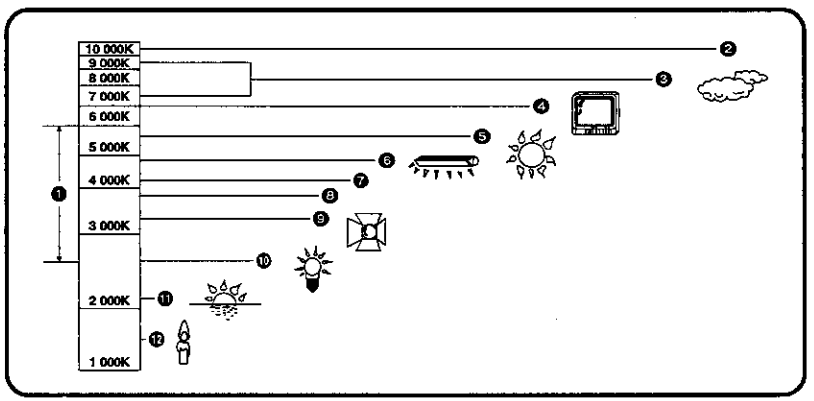
2 Leave the Movie Camera turned off.

- Although charging the lithium battery is possible with the Movie Camera turned on or off, we recommend to keep it turned off to conserve energy.

3 Leave the Movie Camera in this condition for approximately 4 hours.

- Charging the lithium battery in this way for 4 hours maintains the clock operation for approximately 6 months, charging for 26 hours (full charge) maintains it for approximately 2 years.

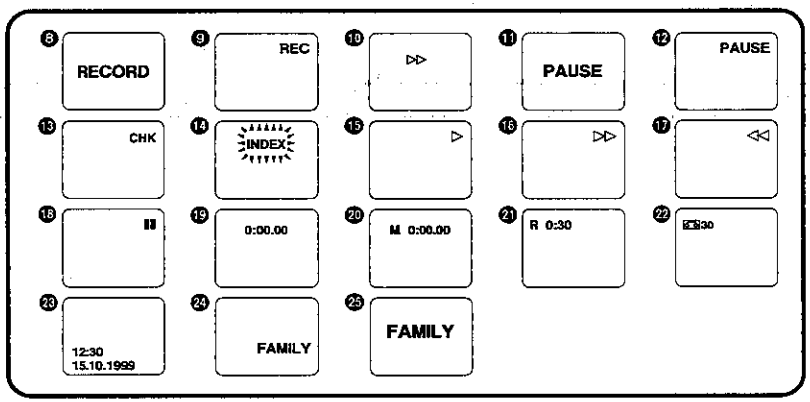
4 Set the clock to the current date and time.



Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature which is measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.
The range ❶ indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually. Also, additional lighting may be necessary.

❶ Control range of this Movie Camera's Auto White Balance Adjustment Mode
❷ Blue sky
❸ Cloudy sky (Rain)
❹ TV screen
❺ Sunlight
❻ White fluorescent lamp
❼ 2 hours after sunrise or before sunset
❽ 1 hour after sunrise or before sunset
❾ Halogen light bulb
❿ Incandescent light bulb
⓫ Sunrise or sunset
⓬ Candlelight



■ **Recording and Playback Indications**

⑧ **Recording Mode (large indication)**

⑨ **Recording Mode (small indication)**

⑩ **Tape Movement during Recording**

⑪ **Recording Pause Mode (large indication)**

⑫ **Recording Pause Mode (small indication)**

⑬ **Recording Check Mode**

⑭ **Index Signal Recording Mode**

An index signal is automatically recorded (and the [INDEX] indication flashes briefly while it is being recorded) when you:

- Start recording after connecting the AC Adaptor or attaching the Battery.
- Start recording after inserting a cassette.
- Start recording after pressing the [VCR/CAMERA] Button to change from the VCR to the Camera Mode.

The recording of index signals makes it possible to use the VHS Index Search or Intro Scan Function during playback on a VCR equipped with these functions.
(Refer to the operating instructions of your VCR.)

⑮ **Playback Mode**
Camera Search Mode

⑯ **Fast Forward/Cue Mode**

⑰ **Rewind/Review Mode**
Camera Search Mode

⑱ **Still Playback Mode**

⑲ **Elapsed Tape Time**

When the tape is rewound further than the position [0:00.00], the minus sign [–] appears in front of the Elapsed Tape Time Indication.

⑳ **Elapsed Tape Time with activated Memory Stop Function**

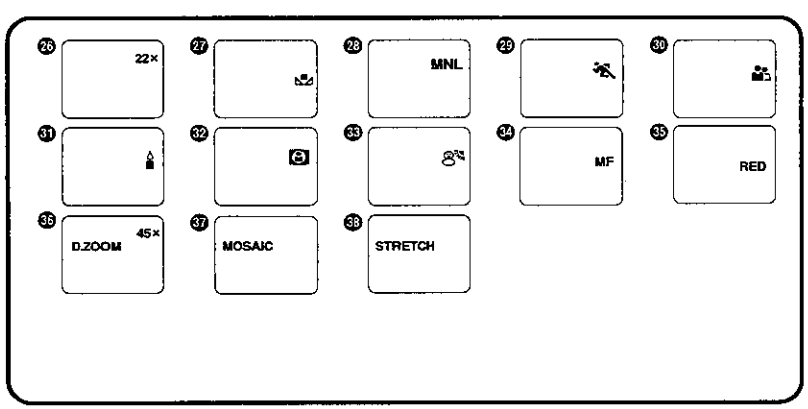
㉑ **Remaining Tape Time**

㉒ **Tape Length**

㉓ **Date and Time**

㉔ **Title (small indication)**

㉕ **Title (large indication)**



㉖ **Zoom Magnification**

㉗ **Manual White Balance Mode**

㉘ **Manual Recording Mode**

㉙ **Sports Mode**

㉚ **Portrait Mode**

㉛ **Low Light Mode**

㉜ **Spotlight Mode**

㉝ **Surf & Snow Mode**

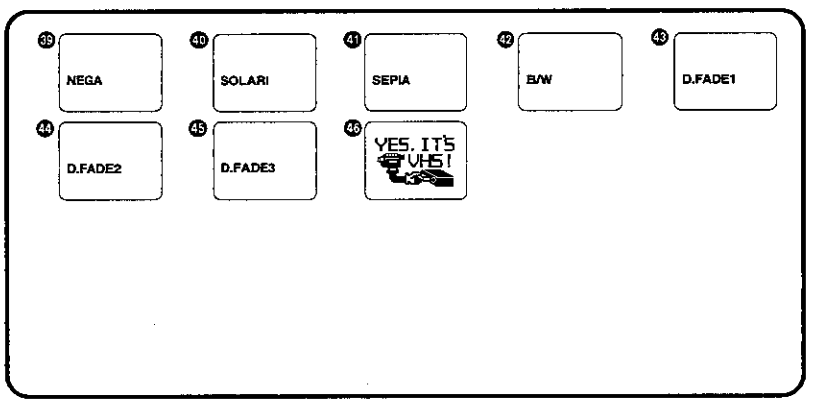
㉞ **Manual Focus Mode**

㉟ **Colour Indication for Digital Image**

㊱ **Digital Zoom Mode**

㊲ **Mosaic Mode**

㊳ **Stretch Mode**



㊴ **Nega Mode**

㊵ **Solarisation Mode**

㊶ **Sepia Mode**

㊷ **Black-and-White Mode**

㊸ **Digital Fade 1 Mode**

㊹ **Digital Fade 2 Mode**

㊺ **Digital Fade 3 Mode**

㊻ **Demonstration Mode**

Demonstration Mode

If you connect the AC Adaptor to the Movie Camera, turn the Movie Camera on without any cassette inserted, and leave it on for approximately 10 minutes without performing any operation, it automatically switches over to the Demonstration Mode. The Movie Camera remains in this mode until you turn it off and disconnect the AC Adaptor.

Cancelling the Demonstration Mode

Set [DEMO MODE] on the [MAIN MENU] Menu to [OFF].
Or, turn in the [POWER] Switch to turn the Movie Camera off, then turn it out again while pressing the [STOP] Button. (This cancels the Demonstration Mode even if [DEMO MODE] on the [MAIN MENU] Menu is still set to [ON].)

Reactivating the Demonstration Mode

Set [DEMO MODE] on the [MAIN MENU] Menu to [ON].
Or, turn out the [POWER] Switch while pressing the [PLAY] Button. (This reactivates the Demonstration Mode even if [DEMO MODE] on the [MAIN MENU] Menu is still set to [OFF].)

5 ADJUSTMENT PROCEDURES

5.1. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw)
1	Side Case (L) Unit	Fig. 1	1-Screw (A) 2-Screws (B)
		Fig. 2	7-Screws (C)
		Fig. 3	2-Locking Tabs (a) Slightly open the Side Case (L) Unit. Disconnect P1001 and FP6004.
2	EVF Unit	Fig. 4	4-Locking Tabs (b)
3	Cassette Cover Unit	Fig. 5	2-Screws (D)
4	Side Case (R) Unit with Top Operation Panel Unit	Fig. 6	2-Screws (E) 4-Locking Tabs (c) Slightly open the Side Case (R) Unit with Top Operation Panel Unit. Disconnect FP6003 and FP6006.
5	Front Case Unit	Fig. 6	3-Locking Tabs (d) Disconnect FP6801.
6	Rear Case Unit	Fig. 7	1-Screw (F) Disconnect PS1003 and PS3009. 1-Locking Tab (e)
7	Camera/Main C.B.A.	Fig. 7	1-Screw (G) 2-Screws (H) Remove the Shield Case. Disconnect the following connectors; FP5001, FP6001, FP6002, PP301, FP2001, FP2002, FP701
8	Lens Unit	Fig. 8	2-Screws (I)
9	Mechanism Unit	Fig. 8	1-Screw (J) 1-Screw (K)
10	EVF C.B.A.	Fig. 9	Turn the Eye Cap Unit counterclockwise and remove it.
		Fig. 10	Turn the EVF Fixing Piece clockwise until you can see a Screw (L). 3-Locking Tabs (f)

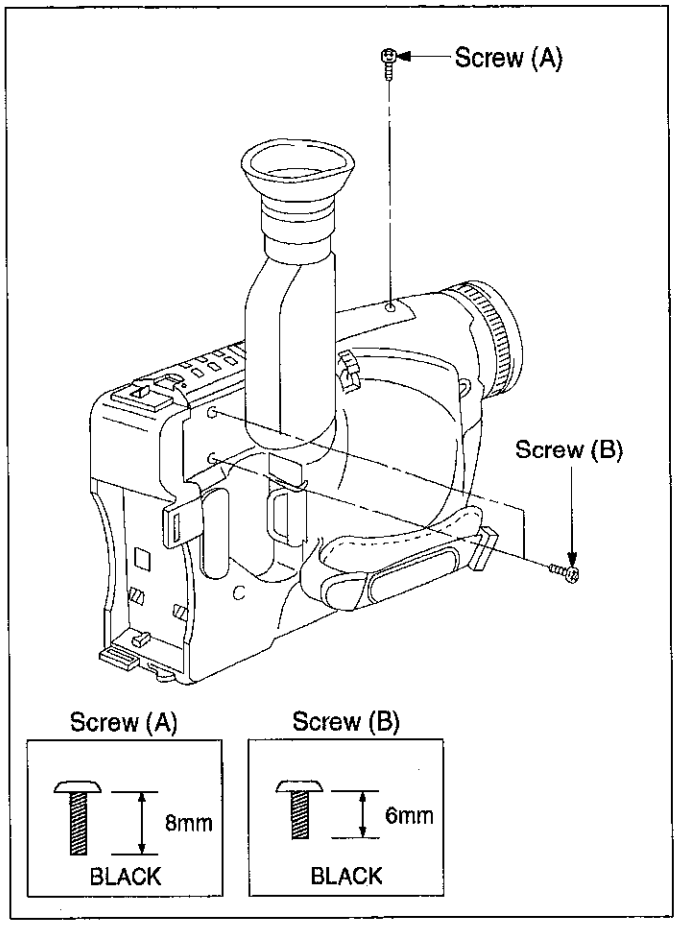


Fig. 1

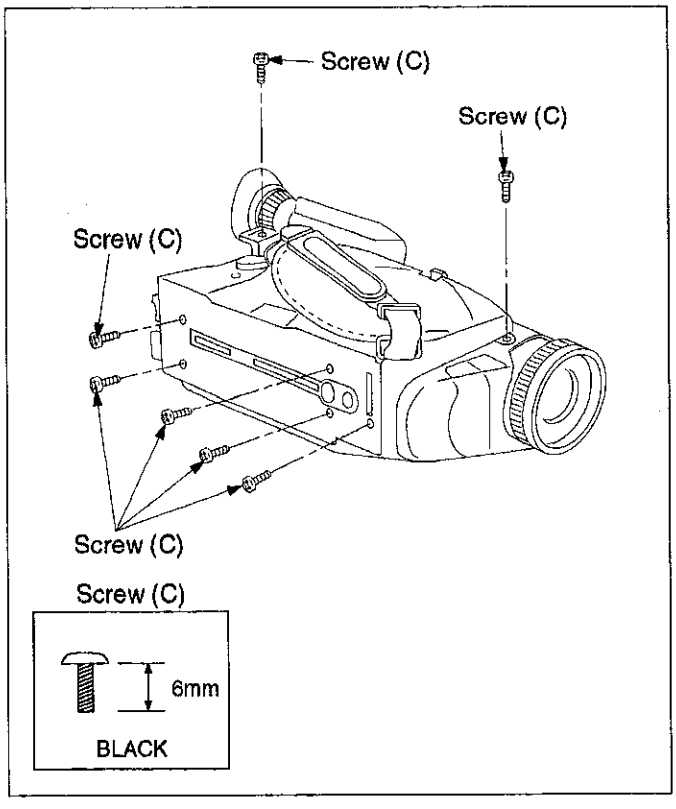


Fig. 2

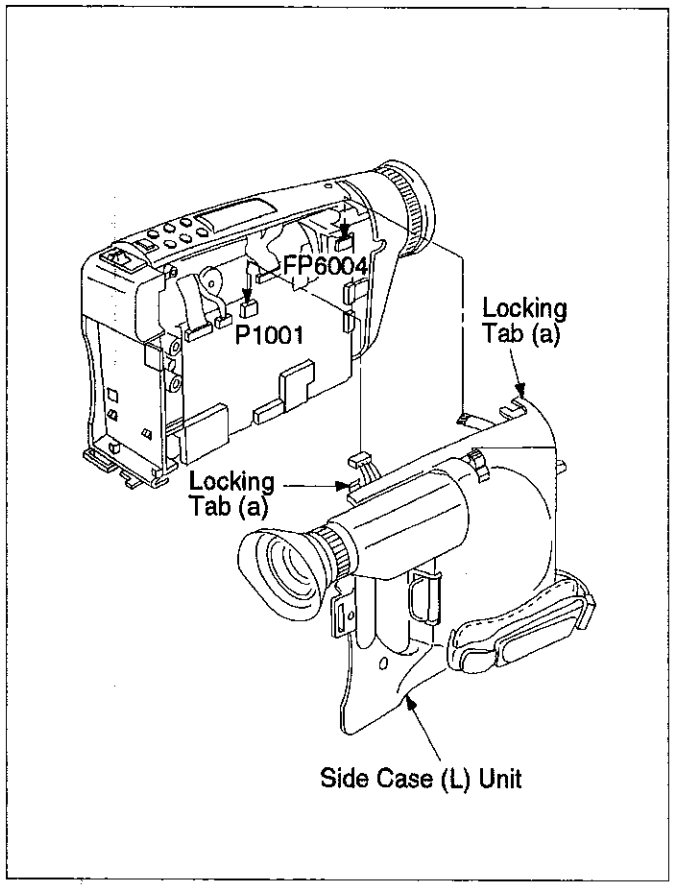


Fig. 3

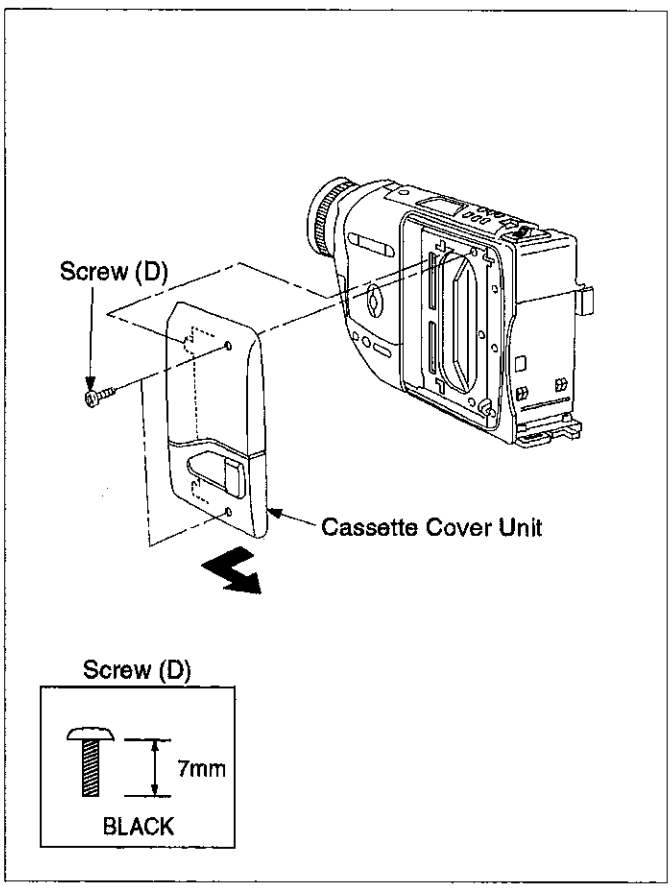


Fig 5

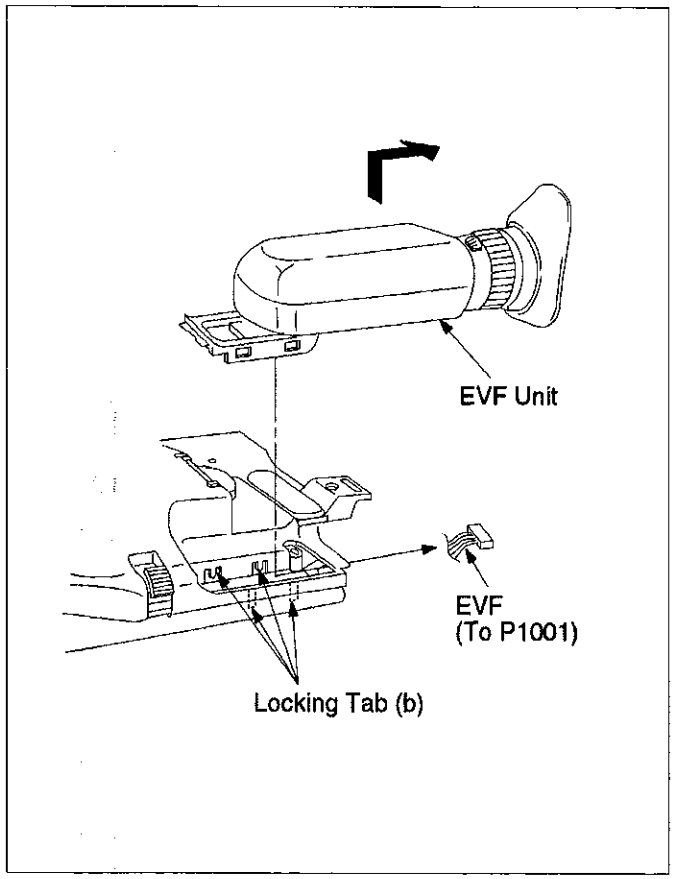


Fig.4

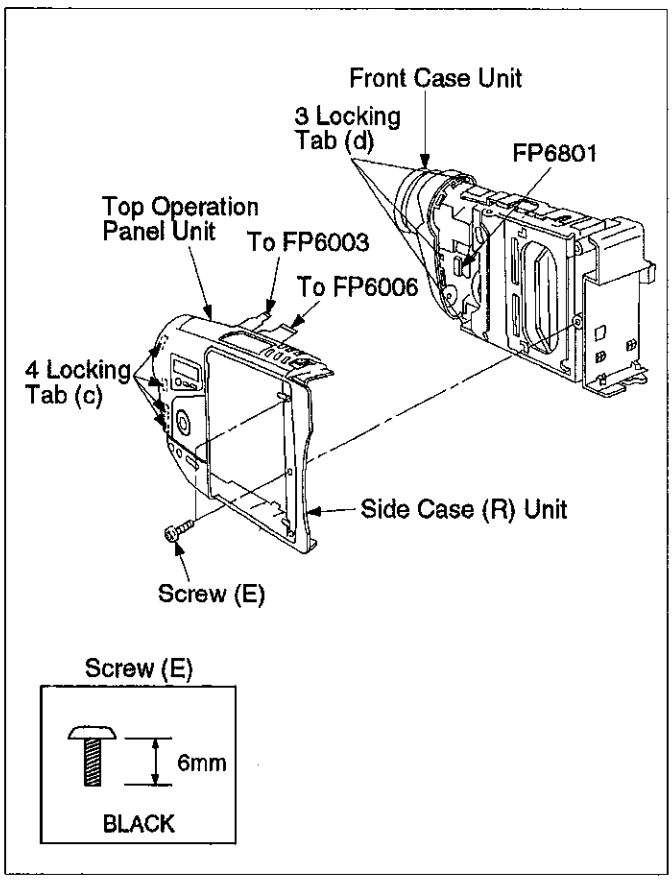


Fig. 6

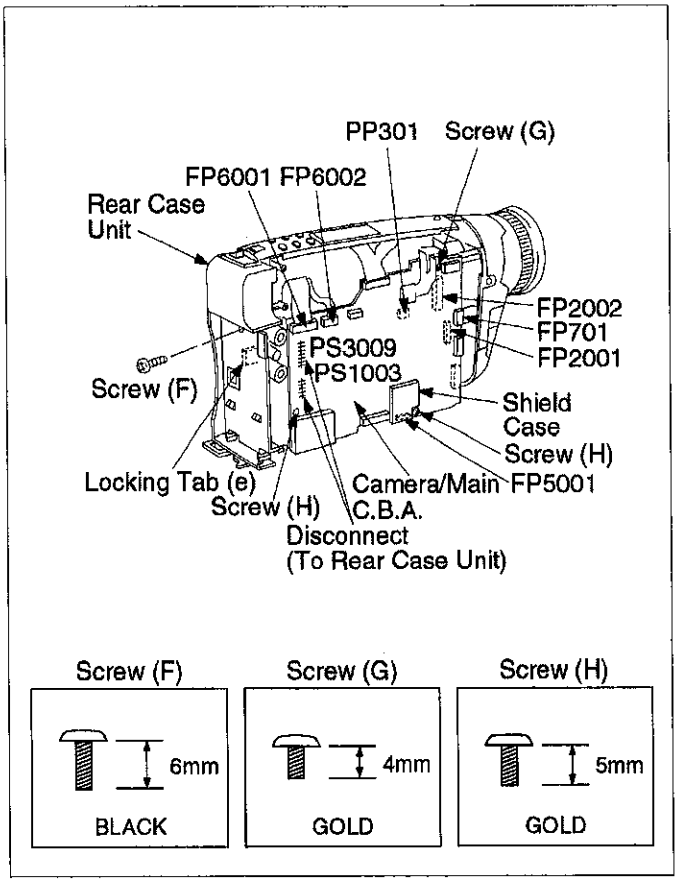


Fig. 7

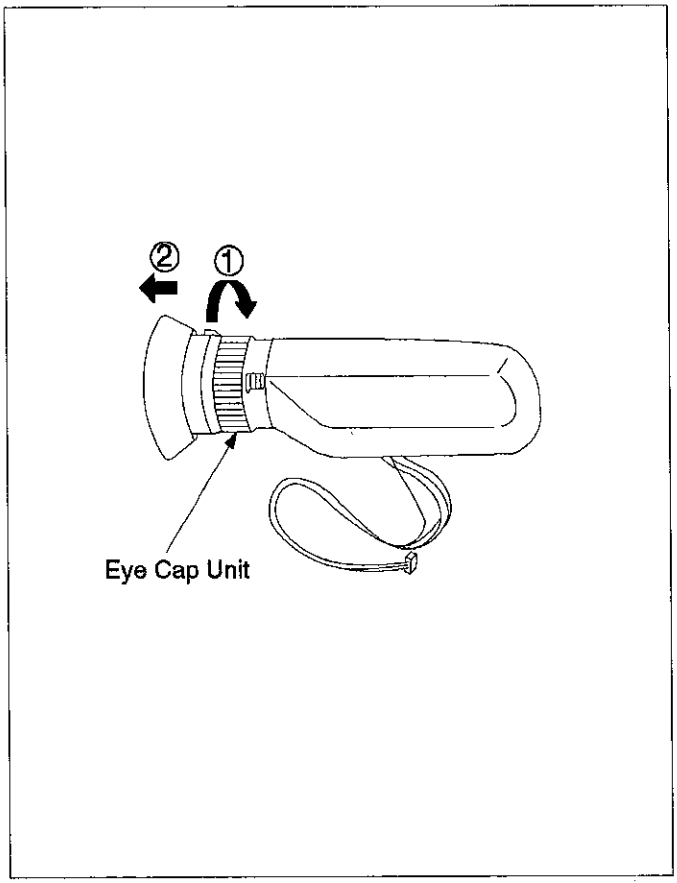


Fig. 9

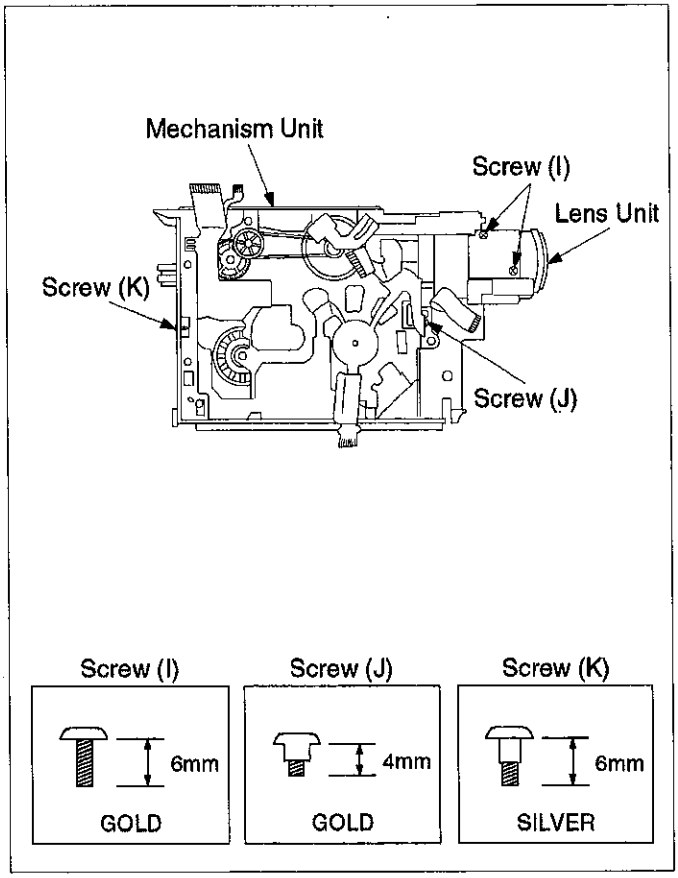


Fig. 8

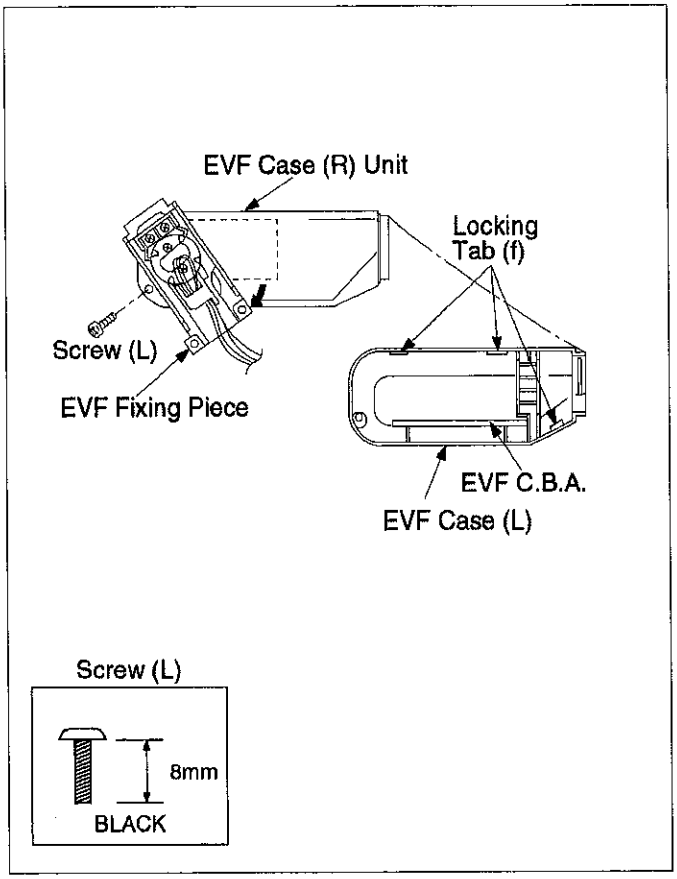


Fig. 10

5.2. ELECTRICAL ADJUSTMENT PROCEDURE FOR EVF SECTION

5.2.1. ADJUSTMENT PROCEDURE

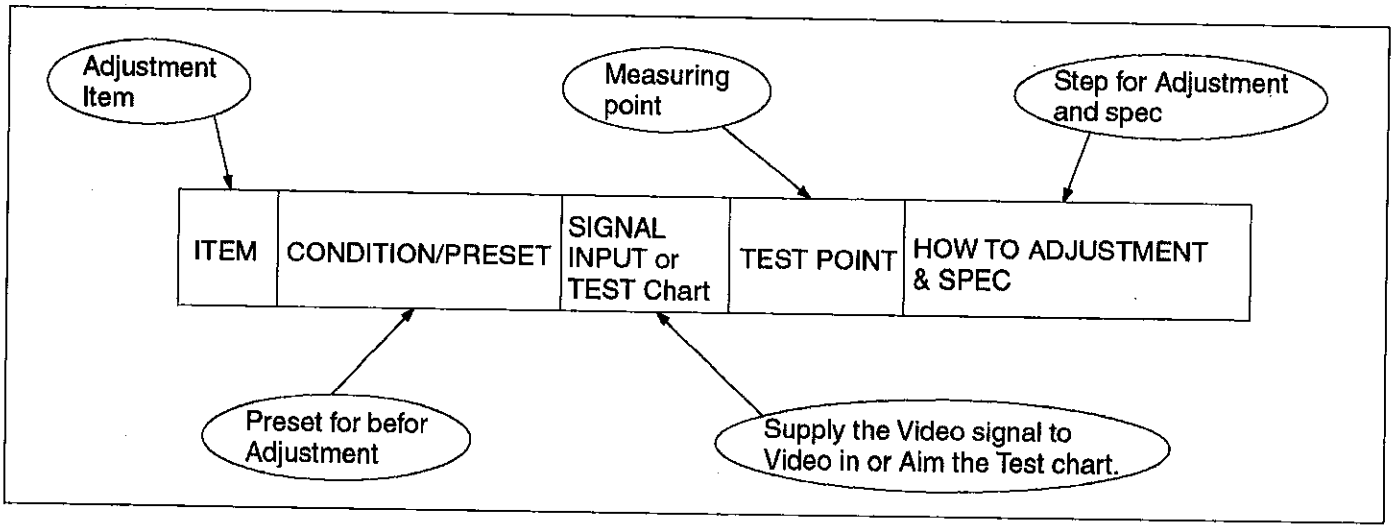
The following Equipment are required for adjustment of the Viewfinder.

1. Chart: Ball chart/Registration chart/Gray Scale chart.
2. Tools: Plastic Tip driver

The following adjustment are Electric Viewfinder.

1. Remove the E.V.F. Unit from Side Case (L).
   (Remove the 2 Screws from Side Case (L).)
2. Turn the E.V.F. Fixing Piece clockwise until you can see a 1 Screw and Unlock the 3 Locking tabs.
   (Please refer to Fig. E1.)

How to read the Adjustment Procedure.



5.2.2. ELECTRICAL ADJUSTMENT FOR EVF SECTION

ITEM	CONDITION/PRESET	SIGNAL INPUT or TEST Chart	TEST POINT	HOW TO ADJUSTMENT & SPEC
1 CENTERING	Aim the Camera at Registration chart.	Registration Chart	EVF on Screen	Adjust the deflection-yoke centering magnet turning so that picture on EVF is centerd. Please refer to Fig. E2.
2 FOCUS	Aim the Camera at Ball Chart.	Ball Chart	EVF on Screen	Adjust the VR803 for best resolution in the Viewfinder. After performed this adjustment, confirm "A" Part of VR803. "A" part is outside of 100 degree. Please refer to Fig. E3.
3 VERTICAL SIZE	Aim the Camera at Gray Scale Chart.	Gray Scale Chart	EVF & TV on Screen	Adjust the VR801 for best vertical size. (Picture does not roll as shown in Fig. E4.)
4 BRIGHTNESS	Aim the Camera at Gray Scale Chart.	Gray Scale Chart	EVF & TV on Screen	Adjust the VR804 so brightness in viewfinder is same as monitor TV.

5.2.3. HOW TO ADJUSTMENT

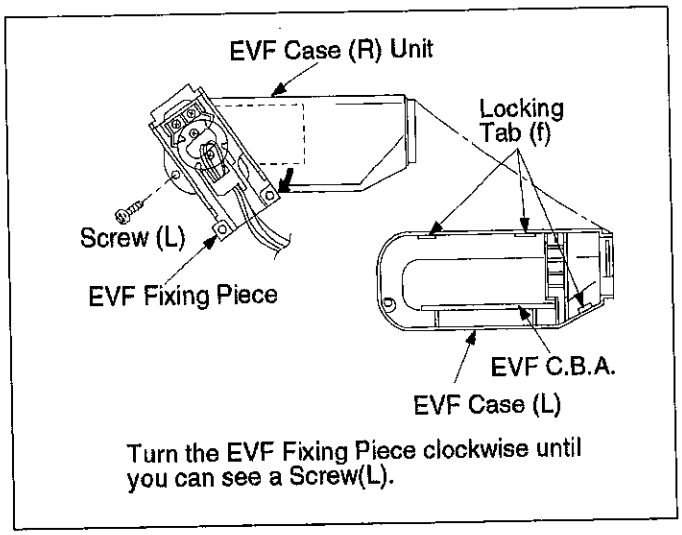

EVF Case (R) Unit
Locking Tab (f)
Screw (L)
EVF Fixing Piece
EVF C.B.A.
EVF Case (L)
Turn the EVF Fixing Piece clockwise until you can see a Screw(L).

Fig. E1 (PREPARATION)

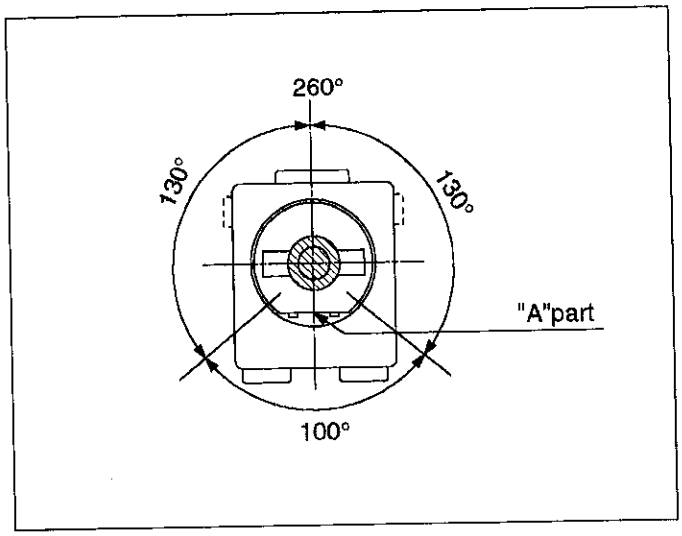


Fig. E3 (FOCUS ADJUSTMENT)

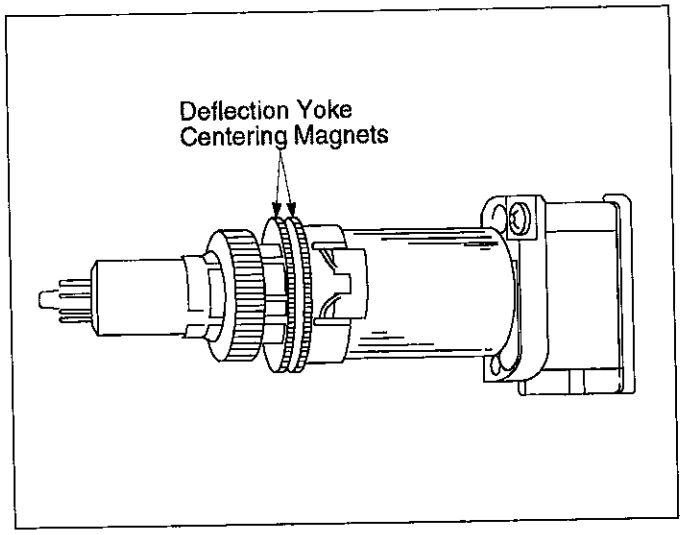


Fig. E2 (CENTER ADJUSTMENT)

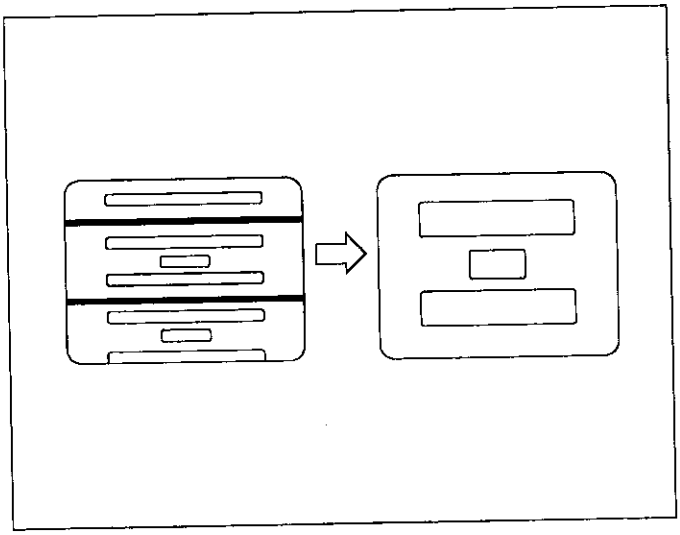
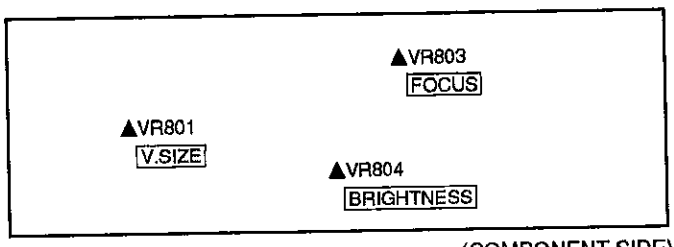


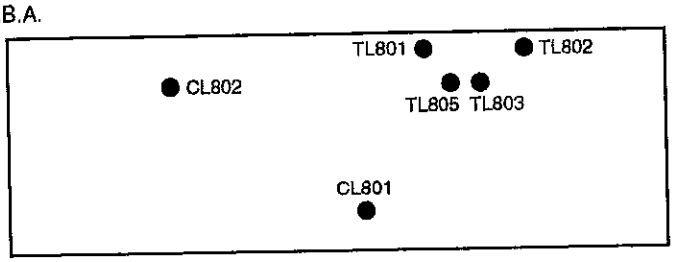
Fig. E4 (VERTICAL ADJUSTMENT)

5.2.4. LOCATION OF TEST POINTS & CONTROLS

EVF C.B.A.



(COMPONENT SIDE)



(FOIL SIDE)

Fig. 2

5.3. ISASSEMBLY PROCEDURES OF LENS UNIT

· The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.

· To reassemble the unit follow the steps in reverse order.

1. CCD Unit	Ref.-No. 202
2. CCD Cushion & Crystal Filter	Ref.-No. 203/201
3. Zoom Motor Unit	Ref.-No. 207
4. Focus Motor Unit	Ref.-No. 208
5. Lens Flex. Card C.B.A.	Ref.-No. 208
6. Master Flange	Ref.-No. 206
7. 4th Moving Frame Unit	Ref.-No. 214
8. 3rd Lens Frame Unit	Ref.-No. 216
9. Iris Unit	Ref.-No. 211
10. Guide Pole	Ref.-No. 209
11. 2nd Moving Frame Unit	Ref.-No. 212

Note: Each Ref.-numbers are equivalent to number on Fig. L2 and Parts-List.

Fig. L1

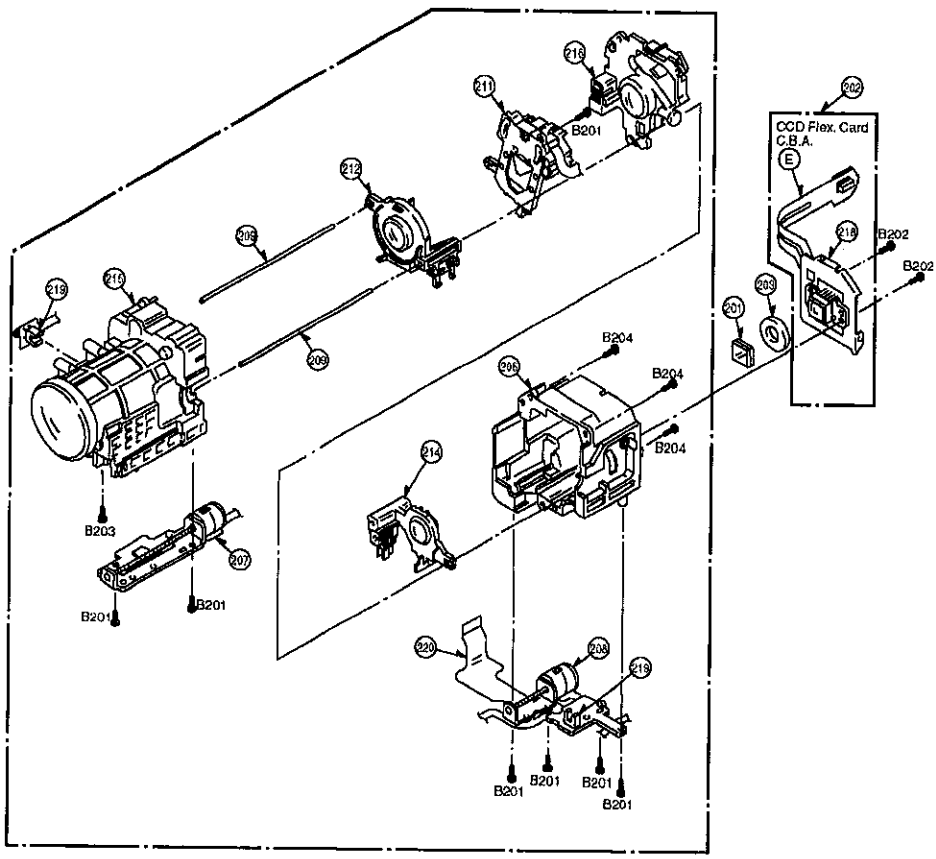


Fig. L2

6 ABBREVIATIONS

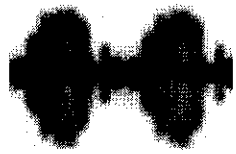
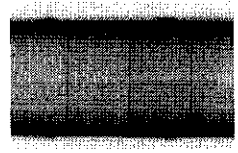
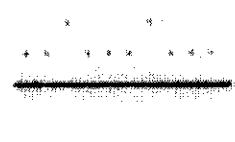
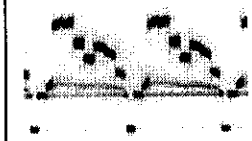
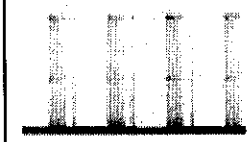
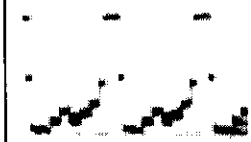
INITIAL/LOGO		ABBREVIATIONS
A	A. TR	Auto Tracking
	ABSF	Focus Encoder Input
	AD REC	Audio Delaied REC
	ADCLK	Analogue Digital Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEIRQ	Auto Expose Interrupt Request
	AFADE	Audio Fade
	AGCCNT	Automatic Gain Control Control
	AGS	Anti Ground Shooting
	ALCCNT	Auto Level Control Control
	ALCMAIN	Auto Level Control Drive
	AMUT	Audio Mute
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	APS	Auto Power Save
	ARTV	Artifical Vertical Sync
	ATR	Auto Tracking
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	B-Y KB	B-Y Carrier Balance
	BACK	Back-up
	BCBM (B-Y)	B-Y Carrier Balance
	BCBM (R-Y)	R-Y Carrier Balance
	BFA	Burst Flug for Encoder
	BFND	Burst Flag Pulse
	BFO/BFI	Burst Flug Input/Output
	BL	Back Light
	BLC O, I	Back Light Y Control Out, In
	BLD I/O	Back Light Drive Input/Output
	BLK	Blanking Pulse
	BLK I/O	Blanking Pulse In/Out
	BM	Balance Modulator
	BUF	Buffer
C	C CNT	Colour Control
	C/N	Carrier/Noise
	CAMCLK	Camera Clock
	CAP R/F/S	Capstan Revers (H)/Stop (M)/Foward (L)
	CAPVM	Capstan Motor Current
	CASDWN	Cassette Down
	CBLK	Composite Blanking Pulse
	CCW	Counter-Clockwise
	CDS	Correlate Double Sampling Signal
	CFEM	Chrominance Memory Signal
	CGC	Chrominance Gain
	CH1	Channel 1 (Odd Field)
	CHR MIX	Character Mix
	CL/ CLK	Clock
	CMO	Chroma Memory Output
	CMODE	Camera Mode
	CO 0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	CP	Clamp Pulse
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CRST	Camera Reset
	CS	Chip Select

INITIAL/LOGO		ABBREVIATIONS
C	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CW	Clockwise
	CYLVM	Cylinder Motor Current or Power
D	D MODE	Digital Mode Switch Signal
	DAC	Digital Analog Converter
	DAC	Digital Analogue Converter
	DB 0-7	Data 0-7
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DICLK	Digital Clock
	DIS	Digital Image Stabilizer
	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DOCTL	Data Output Control
	DODAT	Serial Data (to D/A Converter)
	DRK	Dark
	DS	Double Sampling Pulse
	DS 1, 2	Double Sampling Pulse
	DSP	Digital Signal Processor
	DVDD	Digital VDD
	DVSS	Digital Ground
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E2P	EEPROM
	ECM	Electric Condencer Mic
	EE CS	EEPROM Chip Select
	EEPROM	Electric Erasable Programable Read Only Memory
	ENV	Enverope
	EQ	Equalizer
	EXT DC	External DC (AC Adaptor)
	EZOOM	Electric Zoom
F	F	Far (Focus)
	FCK	Clock
	FENC	Focus Encoder
	FM0-7	Field Memory 0-7
	FMCS	Chip Select for FM-Audio
	FMDREC	FM Audio Delayed REC
	FMOEM	Field Memory Enable
	FMT 1-4	Focus Motor Terminal 1-4
	FNO	F Value
G	GCNT	Gain Control
	GSW	Ground for Switching Power
H	H 1, 2	H. CCD Drive Pulse
	HASW	HEAD AMP SW
	HBRST	High Bright Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive
	HEX	Hexadecimal
	HLT	High Bright Signal
	HSS	Horizontal Sync Signal
	HSS	High Speed Shutter
I	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOV	B-Y Analogue Signal Output
	IRDET	Infrared Rays Detection

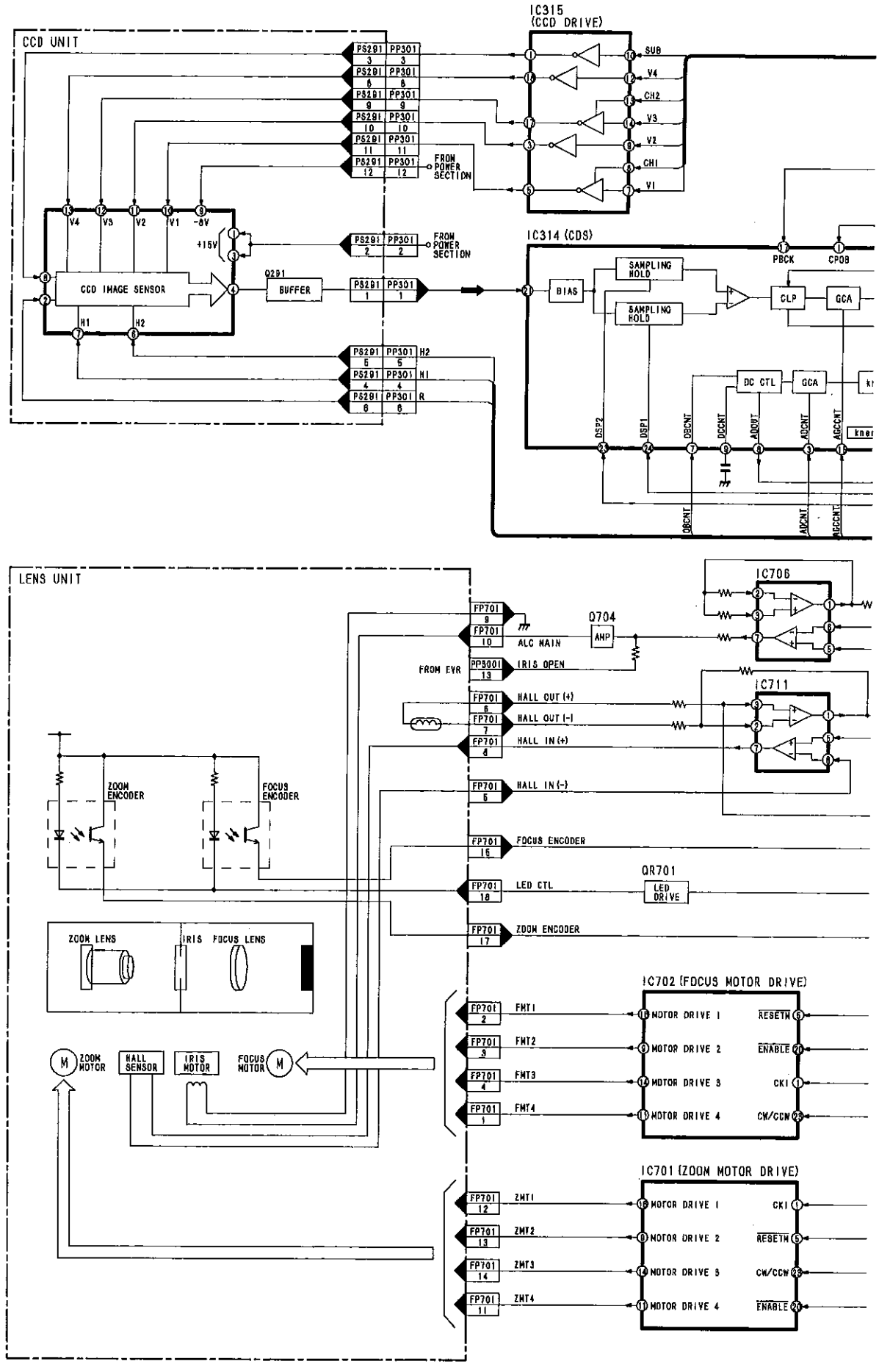
INITIAL/LOGO		ABBREVIATIONS
I	IRIS/SH	Iris/Shutter Control
	IRQ	Interrupt Request
K	KANDO	Digital Gain Up
	KND	Digital Gain Up
	KNEE	Knee Corection (γ Control)
L	LCD	Liquid Crystal Display
	LD	Load Pulse
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LSB	Least Significant Bit
	LVL	LPF Switch for Auto Focus
M	MD	Modulation
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MIX N.R.D	Non Rec Data Mix
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal
N	N	Near (Focus)
	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NC	No Connection
	NDE	Non Liner De-Emphasis
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	No Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRDBLK	Non Rec Data Blanking
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OBCNT	Optical Black Control
	OE	Output Enable
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom
P	PAJ	Picture Control
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBLK	Pre-Branking (Pulse)
	PCBM	Carrier Balance
	PED	Pedestal
	PEDECNT	Pedestal Control
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
R	R/B	Read/Busy
	R-Y KB	R-Y Carrier Balance
	RAD	Reed Address Data
	RAE	Read Address Enable
	RE	Read Enable
	RE	Rotary Erase Head
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RERASE	Rotary Erase Head
	RST	Reset
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write

INITIAL/LOGO		ABBREVIATIONS
R	RW	Read Write
	RWAE	Read Write Enable
S	S PHOT	Supply Photo Transistor
	SDET	S-VHS Detect
	STAB	S-VHS Tab Switch
	ST5V	Safety Tab 5V
	STAB	Safety Tab Switch
	SNS LED	Sensor LED
	SCK/SCLK	Serial Clock
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SO	Serial Data Output
	SIOC	Serial In/Out Conrol
	SH/IRIS	SHUTTER/IRIS CONTROL
	S/S	Start/Stop
	SUB CNT	Sub Control
	SSG	Sync Signal Generator
T	T PHOT	Take-up Photo Transisitor
	TBC	Time Base Control
	TL	Torque Limit
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
U	U/V SEL	R-Y/B-Y Select Signal
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V. CCD Drive Pule
	VB	VH Filter Switching
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDREC	Video Delayed Rec
	VIN	Video In
	VITC	Vertical Interval Time Code
	VL	Low Voltage
	VM	Motor Voltage
	VMD1-3	Electric Shutter Mode
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VSS	Vertical Sync Signal
W	WAD/WAE	Write Address Enable
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
Y	YNCST	Noize Canceller
	YNR	Noize Reduction
Z	Z. ENC	Zoom Encoder
	Z. MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMT(+)/(–)	Zoom Motor (+)/(–)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side

7 WAVE FORM TABLE

IC701-11, 14 POWER ON 6.0 Vp-p (5msec./div.) ZOOM MOTOR DRIVING	IC3001-15 REC 0.2 Vp-p (2msec./div.) COLOUR BAR	 IC3001-9 REC 0.5 Vp-p (20µsec./div.) COLOUR BAR	 IC3001-6 REC 0.4 Vp-p (5msec./div.) COLOUR BAR	IC3001-61 REC 1.4 Vp-p (20µsec./div.) COLOUR BAR
IC3001-57 REC 2.0 Vp-p (20µsec./div.) COLOUR BAR	IC5001-1 PLAY 0.4 Vp-p (2msec./div.) COLOUR BAR	IC5001-47 PLAY 0.2 Vp-p (2msec./div.) COLOUR BAR	 IC5001-8 3.0 Vp-p (20msec./div.) COLOUR BAR	IC6003-13 FF/REW 2.2 Vp-p (50msec./div.)
IC6003-15 FF/REW 3.0 Vp-p (20msec./div.)	IC6003-63 STOP 2.6 Vp-p (50msec./div.)	IC6003-72 FF/REW 3.0 Vp-p (10msec./div.)	IC6003-139, IC2201-47 REC/PLAY 5.2 Vp-p (1µsec./div.)	IC6003-140 REC/PLAY 5.4 Vp-p (1µsec./div.)
IC6003-150, IC2201-56 REC/PLAY 3.0 Vp-p (10msec./div.)	IC6003-152, IC2201-57 REC/PLAY 3.0 Vp-p (0.2msec./div.)	IC6003-154, IC2201-55 REC/PLAY 3.0 Vp-p (1msec./div.)	IC6003-167 STOP 5.4 Vp-p (0.5µsec./div.)	IC2201-2, 14, 16 REC/PLAY 2.8 Vp-p (1msec./div.)
IC2201-29, 30, 31 REC/PLAY 2.8 Vp-p (20msec./div.)	IC2201-52 REC/PLAY 0.6 Vp-p (0.5µsec./div.)	IC301-40 STOP 1.0 Vp-p (20µsec./div.) GRAY SCALE	 IC301-85 STOP 1.5 Vp-p (20µsec./div.) COLOUR BAR	IC301-80 STOP 1.5 Vp-p (20µsec./div.) COLOUR BAR
IC314-8 STOP 1.2 Vp-p (20µsec./div.) GRAY SCALE	IC314-21 STOP 0.6 Vp-p (20µsec./div.) GRAY SCALE	IC1001-9 STOP 1.0 Vp-p (1µsec./div.)	IC1001-11 STOP 1.4 Vp-p (1µsec./div.)	IC1001-15 STOP 1.3 Vp-p (1µsec./div.)
IC1001-27 STOP 0.6 Vp-p (1µsec./div.)	Q1001-2 STOP 11.8 Vp-p (1µsec./div.)	Q1003-4 STOP 12.0 Vp-p (1µsec./div.)	Q1004-2 STOP 18.0 Vp-p (1µsec./div.)	Q1061-4 STOP 0.2 Vp-p (1µsec./div.)
Q1062-4 STOP 0.2 Vp-p (1µsec./div.)	 IC801-10 STOP 3.0 Vp-p (10msec./div.)	IC801-13 STOP 1.0 Vp-p (20µsec./div.) COLOUR BAR	 IC801-15 STOP 3.6 Vp-p (20µsec./div.) COLOUR BAR	

8.2. CAMERA BLOCK DIAGRAM

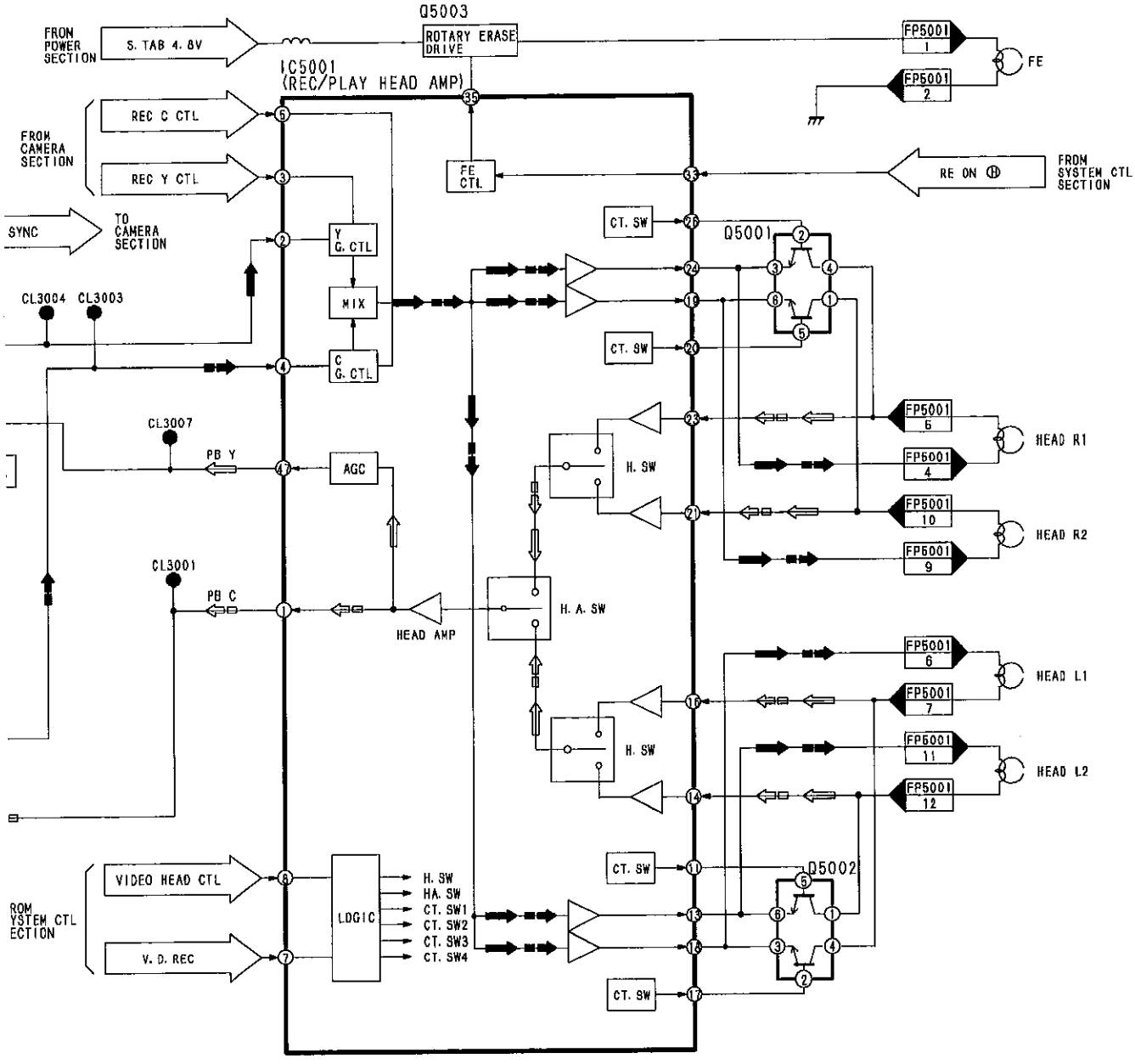


H IN REC MODE

H IN PLAYBACK MODE

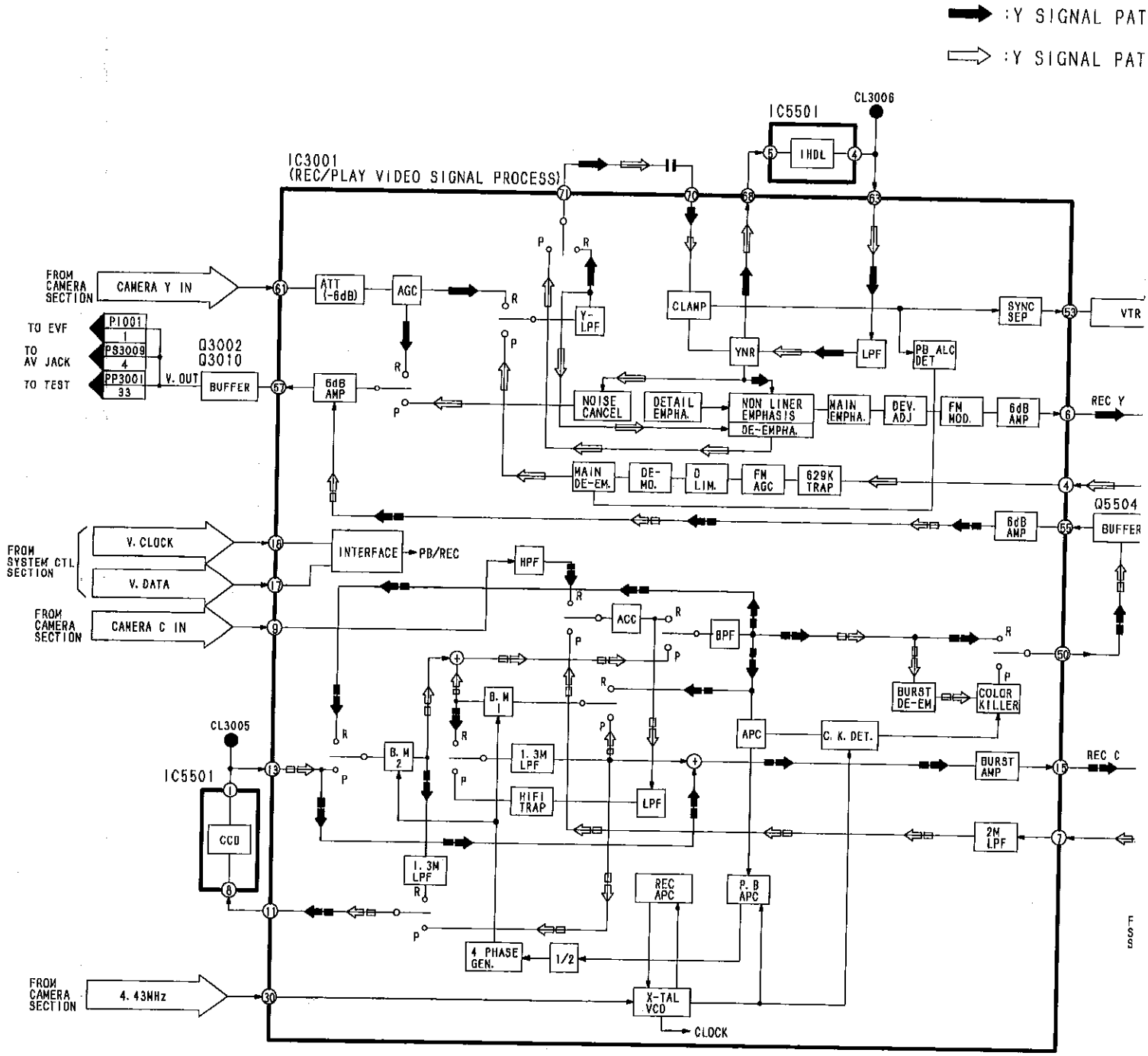
:C SIGNAL PATH IN REC MODE

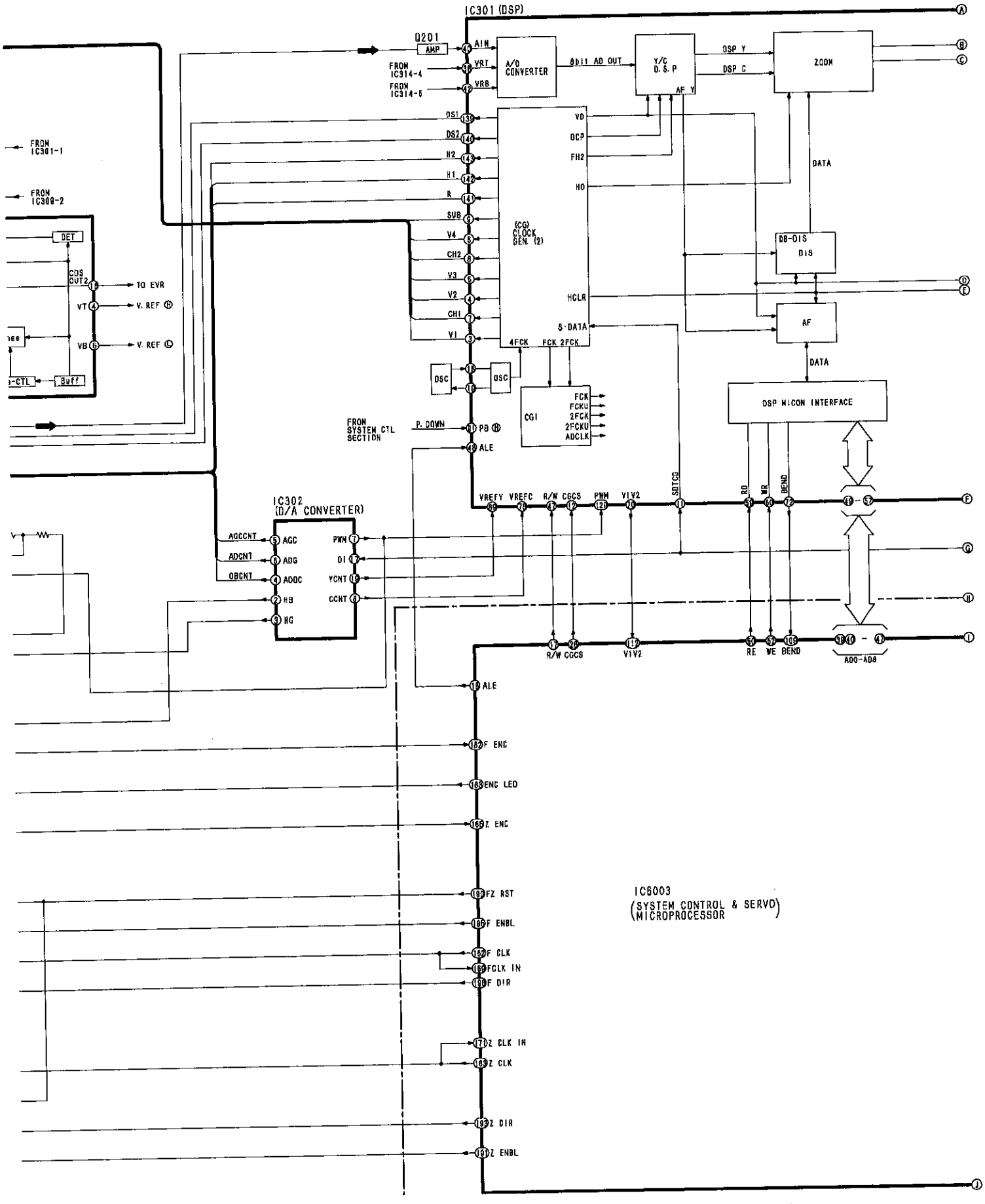
:C SIGNAL PATH IN PLAYBACK MODE



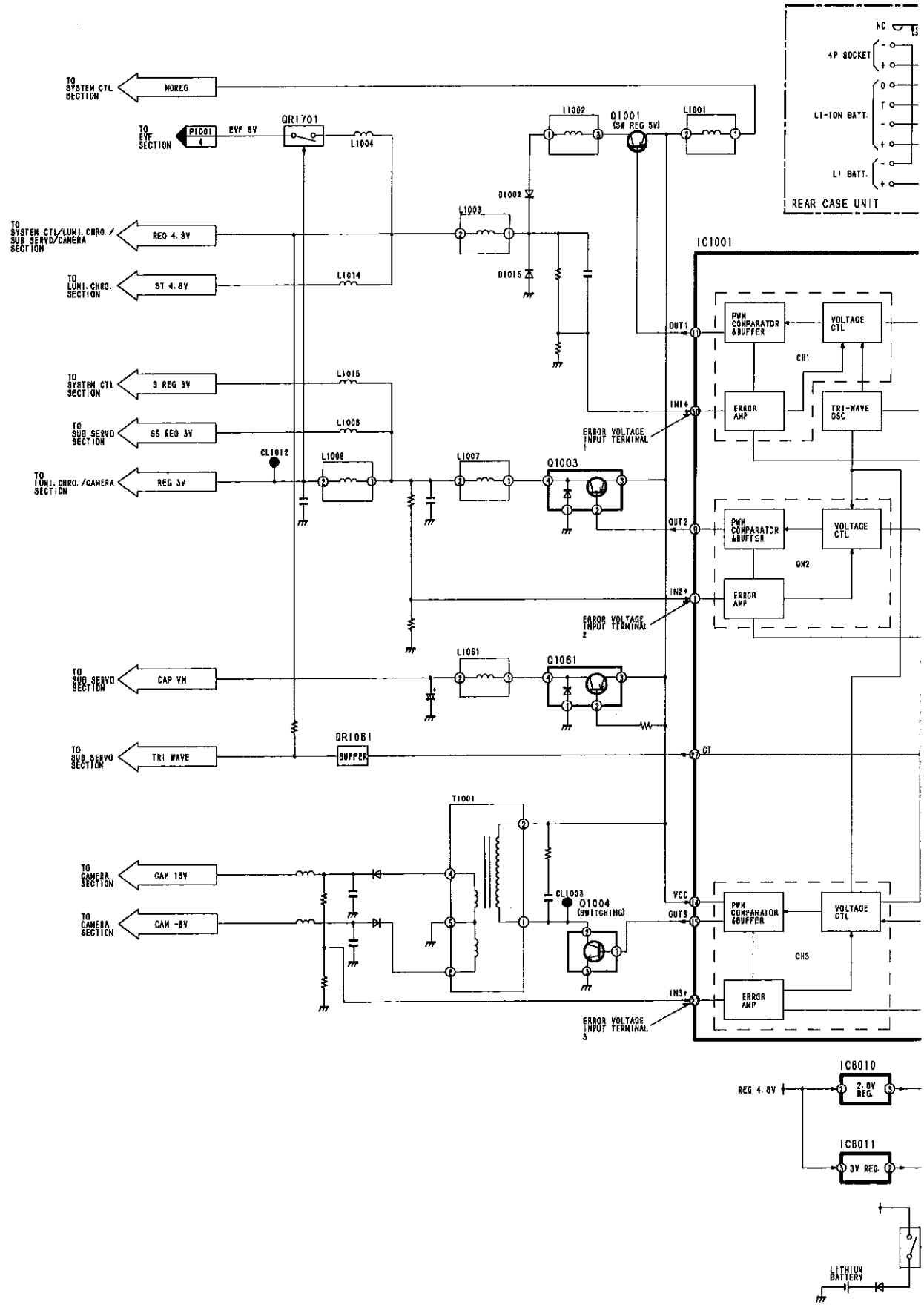
8 BLOCK DIAGRAMS

8.1. VIDEO BLOCK DIAGRAM




IC301 (DSP)
Q201
AMP
AIN
VRT
VRB
FROM IC314-4
FROM IC314-5
A/D CONVERTER
8bit AD OUT
Y/C D.S.P
DSP Y
DSP C
ZOOM
AF Y
DS1
DS2
H2
H1
R
SUB
V4
CH2
V3
V2
CH1
V1
(CG) CLOCK GEN. (2)
VD
OCP
FH2
HD
HCLR
S-DATA
4FCK
FCK 2FCK
DATA
DB-DIS
DIS
AF
OSC
OSC
CGI
FCK
FCKU
2FCK
2FCKU
ADCLK
DSP MICON INTERFACE
FROM SYSTEM CTL SECTION
P. DOWN
PB
ALE
SDTCG
RD
WR
BEND
VREFY VREFC R/W CGCS PWM V1V2
IC302 (D/A CONVERTER)
AGCCNT
ADGNT
OBCNT
AGC
ADG
ADOC
HB
HG
PWM
DI
YCNT
CCNT
FROM IC301-1
FROM IC309-2
DET
CDS OUT2
TO EVR
VT
V. REF
VB
V. REF
Buff
R/W CGCS
V1V2
RE
WE BEND
AD0-AD8
ALE
F ENC
ENC LED
Z ENC
FZ RST
F ENBL
F CLK
FCLK IN
F DIR
Z CLK IN
Z CLK
Z DIR
Z ENBL
IC6003
(SYSTEM CONTROL & SERVO)
(MICROPROCESSOR

8.3. SYSTEM CONTROL & SERVO/POWER BLOCK DIAGRAM



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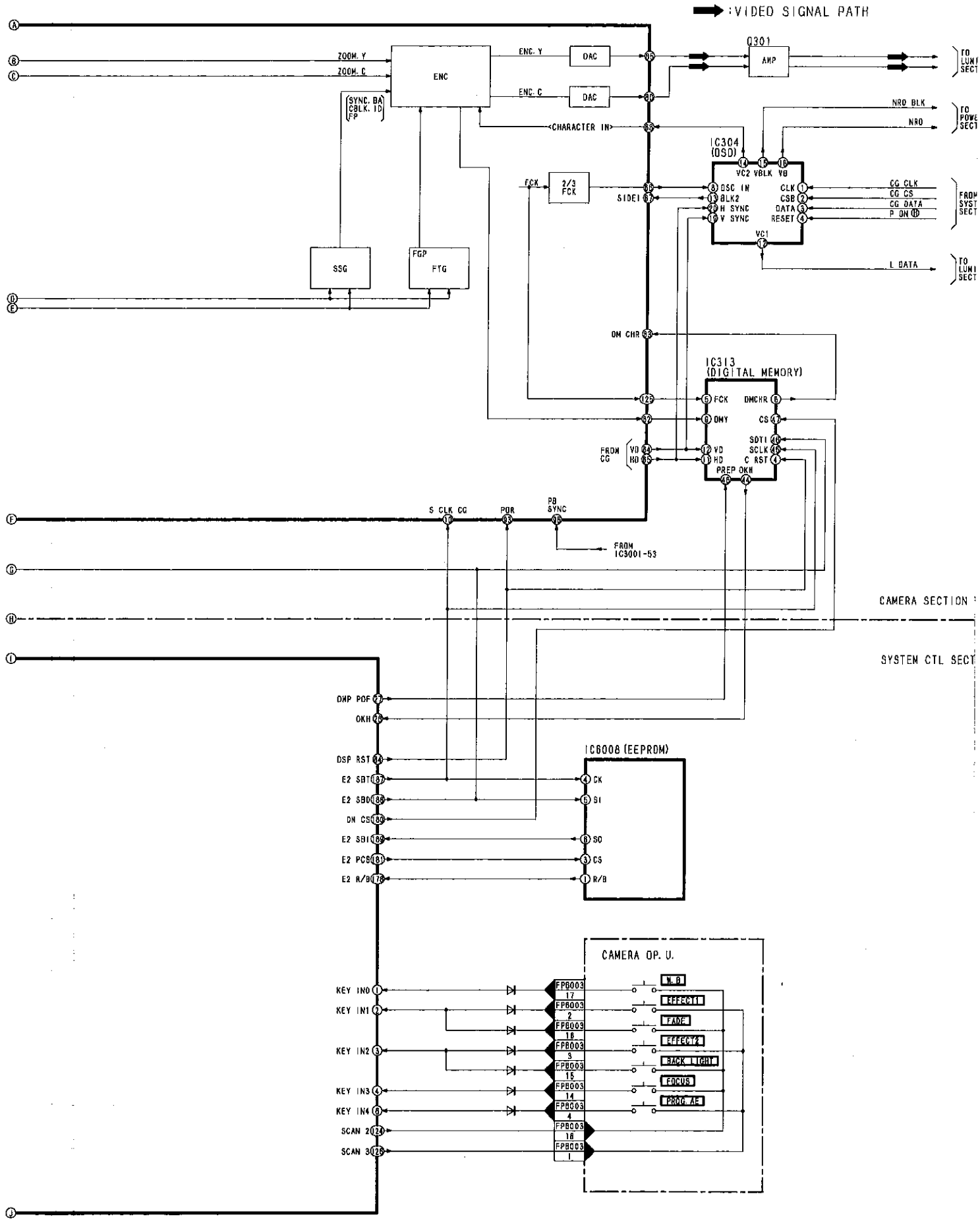
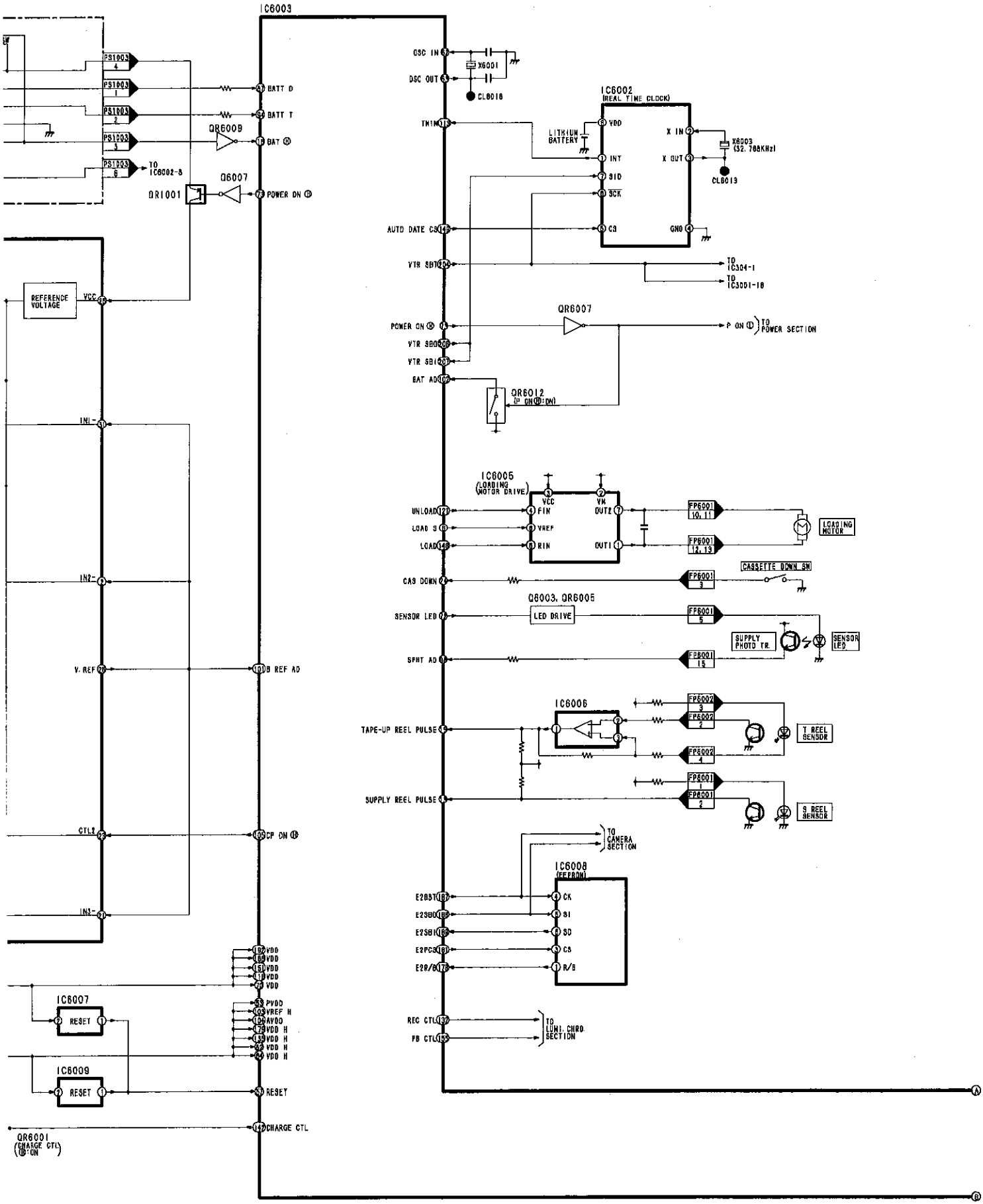

: VIDEO SIGNAL PATH
Q301
AMP
ENC
ZOOM. Y
ZOOM. C
ENC. Y
ENC. C
DAC
DAC
(SYNC. BA
CBLK. TD
FP
<CHARACTER IN>
NRD BLK
NRD
IC304
(OSD)
VC2 VBLK VB
OSC IN
BLK2
H SYNC
V SYNC
CLK
CSB
DATA
RESET
VC1
CG CLK
CG CS
CG DATA
P ON
L DATA
FCK
2/3
FCK
SIDE1
SSG
FGP
FTG
DM CHR
IC313
(DIGITAL MEMORY)
FCK
DMY
VD
HD
DMCHR
CS
SDTI
SCLK
C RST
PREP OKH
FROM
CG
S CLK CG
PDR
PB
SYNC
FROM
IC3001-53
CAMERA SECTION
SYSTEM CTL SECT
DMP POF
OKH
DSP RST
E2 SBT
E2 SBD
DM CS
E2 SBI
E2 PCS
E2 R/B
IC6008 (EEPROM)
CK
SI
SO
CS
R/B
CAMERA OP. U.
KEY IN0
KEY IN1
KEY IN2
KEY IN3
KEY IN4
SCAN 2
SCAN 3
FP6003
W.B
EFFECT1
FADE
EFFECT2
BACK LIGHT
FOCUS
PROG AE


IC6003
PS1003 4
PS1003 1
PS1003 2
PS1003 3
PS1003 6
TO IC6002-8
QR6009
QR1001
Q6007
BATT D
BATT T
BAT
POWER ON
REFERENCE VOLTAGE
VCC
IN1-
IN2-
V. REF
CTL2
IN3-
B REF AD
CP ON
OSC IN
OSC OUT
X6001
CL6016
TN1
AUTO DATE CS
VTR SBY
POWER ON
VTR SB0
VTR SB1
BAT AD
IC6002
(REAL TIME CLOCK)
LITHIUM BATTERY
VDD
INT
SID
SCK
CS
X IN
X OUT
GND
X6003
(32.768KHz)
CL6013
TO IC304-1
TO IC3001-18
QR6007
P ON
TO POWER SECTION
QR6012
(P ON:ON)
IC6005
(LOADING MOTOR DRIVE)
VCC
FIN
VREF
RIN
VK
OUT2
OUT1
UNLOAD
LOAD S
LOAD
CAS DOWN
SENSOR LED
SPHT AD
FP6001 10, 11
FP6001 12, 13
LOADING MOTOR
CASSETTE DOWN SW
FP6001 3
Q6003, QR6005
LED DRIVE
FP6001 5
SUPPLY PHOTO TR
SENSOR LED
FP6001 15
IC6006
TAPE-UP REEL PULSE
SUPPLY REEL PULSE
FP6002 3
FP6002 2
FP6002 4
FP6001 1
FP6001 2
T REEL SENSOR
S REEL SENSOR
TO CAMERA SECTION
IC6008
(EEPROM)
E2CK
E2SI
E2SO
E2CS
E2R/B
CK
SI
SO
CS
R/B
REC CTL
FB CTL
TO LUM. CHRO. SECTION
VDD
PVDD
VREF H
AVDD
IC6007
RESET
IC6009
RESET
CHARGE CTL
QR6001
(CHARGE CTL)
(H:ON)

8.4. SYSTEM CONTROL & SERVO DC VOLTAGE CHART(SP MODE)

IC6002

Ref No. / MODE	1	2	3	4	5	6	7	8
STOP	3.0	0.5	0.5	0	0.3	2.7	2.6	3.1
PLAY	3.0	0.5	0.5	0	0.3	2.7	2.6	3.1
FF	3.0	0.5	0.5	0	0.3	2.7	2.6	3.1

IC6003

Ref No. / MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
STOP	2.9	2.9	2.9	2.9	0	0	2.9	0	0	0	0	2.9	2.4	2.9	2.9	2.9	2.9	0	2.9
PLAY	2.9	2.9	2.9	2.9	0	2.9	2.9	0	0	0	2.9	2.9	2.4	2.9	1.5	2.9	2.9	0	2.9
FF	2.9	2.9	2.9	2.9	0	2.9	2.9	0	0	0	2.9	2.9	1.3	2.9	1.5	2.9	2.9	0	2.9

IC6003

Ref No. / MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
STOP	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	1.2	0
PLAY	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	0.3	0
FF	0	0	1.1	0	0	0	2.9	2.9	0	2.9	—	—	—	—	—	—	—	1.2	0

IC6003

Ref No. / MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
STOP	1.2	1.3	1.5	0.8	1.5	1.2	1.2	2.9	2.9	2.9	—	2.9	2.9	0	0	2.9	2.9	0	0
PLAY	0.7	0.3	0.6	0.1	2.3	0.7	0.3	2.9	0	2.9	—	2.9	2.9	0	0	2.9	2.9	0	0
FF	0.9	0.8	1.5	1.2	1.5	1.2	1.2	2.9	2.9	2.9	—	2.9	2.9	0	0	2.9	2.9	0	0

IC6003

Ref No. / MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
STOP	0	1.4	1.5	2.9	—	0	0	2.9	2.9	2.6	0	2.9	2.9	2.9	0	0	0	0.6	—
PLAY	0	2.9	0	2.9	—	2.9	2.9	2.9	0	2.9	0	0	0.7	0	0	0	0	0.6	—
FF	0	1.4	1.5	2.9	—	0	2.9	0	2.9	2.6	2.9	2.9	2.9	2.9	0	0	0	1.1	—

IC6003

Ref No. / MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
STOP	0	2.9	0	2.9	0	0	2.9	2.9	0	1.6	1.0	2.9	1.5	2.9	1.7	1.5	0	0	0
PLAY	0	2.9	0	2.9	0	0	2.9	2.9	0	1.4	1.0	2.9	1.5	2.9	1.3	1.5	0	0	0
FF	0	2.9	0	2.9	0	0	2.9	2.9	0	1.5	1.0	2.9	1.5	2.9	1.6	1.5	0.2	0	0

IC6003

Ref No. / MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
STOP	1.7	2.1	2.9	2.9	2.9	2.9	0	0.9	0.1	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9
PLAY	1.7	2.1	2.9	2.9	0	2.9	0	0.9	0	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9
FF	1.7	2.1	2.9	2.9	2.9	2.9	0	1.1	0.1	2.9	0.1	0	2.9	0	2.8	2.6	2.9	—	2.9

IC6003

Ref No. / MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
STOP	0	2.9	2.9	2.9	0	2.9	2.9	1.5	1.5	—	0	0	0	0.2	2.9	—	0	0	0
PLAY	0	2.9	2.9	2.9	0	2.9	2.9	1.5	1.5	—	0	0	0	0.2	2.9	—	0	0	1.2
FF	0	2.9	2.9	2.9	0	2.9	2.9	1.5	1.5	—	0	0	0	0.2	2.9	—	0	0	1.1

IC6003

Ref No. / MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
STOP	0	0	0	0	0	—	2.9	0	0.3	0.1	2.6	2.9	1.1	1.5	2.9	—	2.9	0.1	2.9
PLAY	0	0	2.9	0	0	—	2.9	0	0.3	0.1	2.6	1.5	1.1	1.5	2.9	—	2.9	0.1	2.9
FF	0	0	0	0	0	—	2.9	0	0.3	0.1	2.6	1.5	1.1	1.5	2.9	—	2.9	0.1	2.9

IC6003

Ref No. / MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179
STOP	2.9	0	0	0	0	2.6	1.5	0	0	2.9	0	0	2.9	—	—	—	0	2.9	2.9
PLAY	2.9	0	0	0	0	2.6	1.5	0	0	2.9	0	0	2.9	—	—	—	0	2.9	2.9
FF	2.9	0	0	0	0	2.6	1.5	0	0	2.9	0	0	2.9	—	—	—	0	2.9	2.9

IC6003

Ref No. / MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199
STOP	2.9	0	0	2.9	0	0	2.9	2.9	2.9	2.9	2.9	2.6	0	0.6	2.9	1.5	2.9	0	2.9
PLAY	2.9	0	0	2.9	0	0	2.9	2.9	2.9	2.9	2.9	2.6	0	0.6	2.9	0	2.9	0	2.9
FF	2.9	0	0	2.9	0	0	2.9	2.9	2.9	2.9	2.9	2.6	0	0.6	2.9	2.9	2.9	0	2.9

IC6003

Ref No. / MODE	202	202	203	204	205	206	207	208
STOP	2.9	0.7	2.9	2.6	2.9	2.8	2.6	—
PLAY	2.9	0.1	2.9	2.6	2.9	2.8	2.6	—
FF	2.9	0.7	2.9	2.6	2.9	2.8	2.8	—

IC6004

Ref No. / MODE	1	2	3
STOP	0	3.7	7.6
PLAY	0	3.7	7.6
FF	0	3.7	7.6

IC6005

Ref No. / MODE	1	2	3	4	5	6	7	8
STOP	0	7.1	4.8	0	0	2.9	0.3	0
PLAY	0	7.1	4.8	0	0	2.9	0.3	0
FF	0	7.1	4.8	0	0	2.9	0.3	0

IC6006

Ref No. / MODE	1	2	3	4	5	6	7	8
STOP	1.4	0.6	0.7	0	2.6	0.3	4.6	4.8
PLAY	1.4	0.6	0.7	0	2.6	0.3	4.6	4.8
FF	1.4	0.6	0.7	0	2.6	0.3	4.6	4.8

IC6007

Ref No. / MODE	1	2	3	4
STOP	3.0	2.6	—	0
PLAY	3.0	2.6	—	0
FF	3.0	2.6	—	0

IC6008

Ref No. / MODE	1	2	3	4	5	6	7	8
STOP	3.0	3.0	3.0	3.0	3.0	3.0	0	0
PLAY	3.0	3.0	3.0	3.0	3.0	3.0	0	0
FF	3.0	3.0	3.0	3.0	3.0	3.0	0	0

IC6009

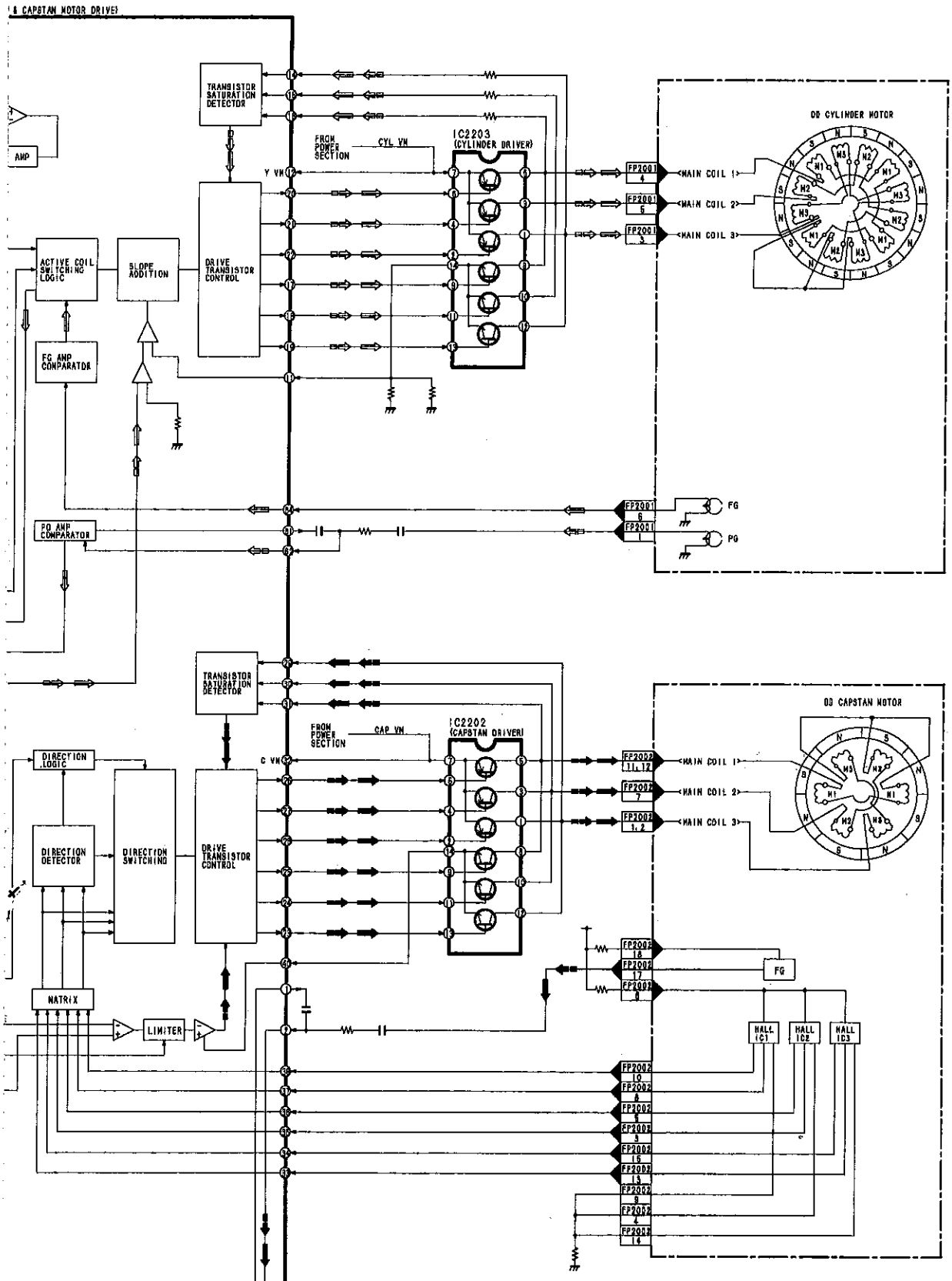
Ref No. / MODE	1	2	3	4
STOP	3.0	3.0	—	0
PLAY	3.0	3.0	—	0
FF	3.0	3.0	—	0

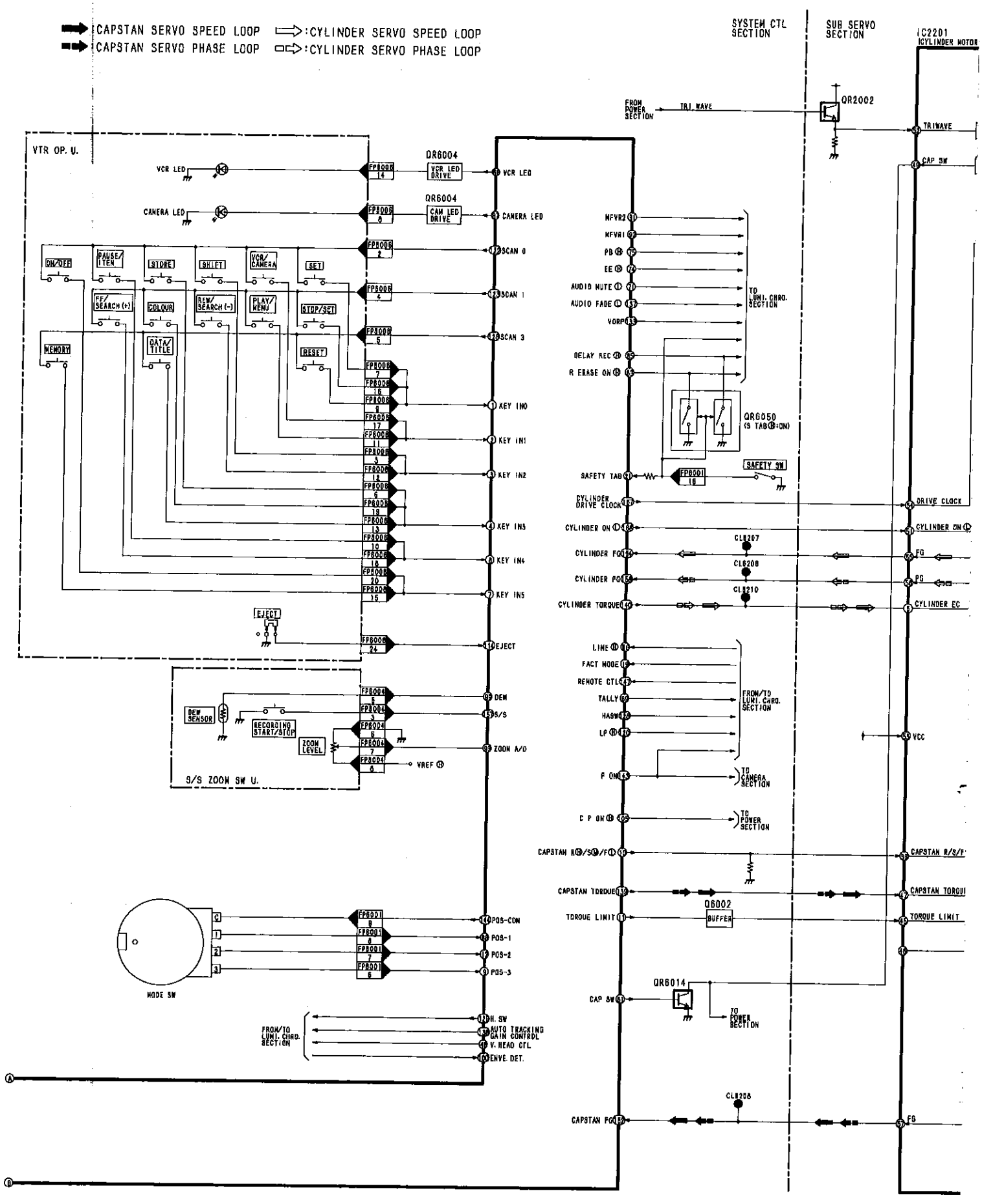
IC6010

Ref No. / MODE	1	2	3
STOP	0	4.5	2.6
PLAY	0	4.5	2.6
FF	0	4.5	2.6

IC6011

Ref No. / MODE	1	2	3
STOP	0	3.0	4.5
PLAY	0	3.0	4.5
FF	0	3.0	4.5


& CAPSTAN MOTOR DRIVE)
AMP
TRANSISTOR SATURATION DETECTOR
FROM POWER SECTION
CYL VN
IC2203 (CYLINDER DRIVER)
Y VN
ACTIVE COIL SWITCHING LOGIC
SLOPE ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPARATOR
PG AMP COMPARATOR
DD CYLINDER MOTOR
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FG
PG
TRANSISTOR SATURATION DETECTOR
CAP VN
IC2202 (CAPSTAN DRIVER)
C VN
DIRECTION LOGIC
DIRECTION DETECTOR
DIRECTION SWITCHING
DRIVE TRANSISTOR CONTROL
MATRIX
LIMITER
FG AMP COMP.
DD CAPSTAN MOTOR
HALL IC1
HALL IC2
HALL IC3


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP
SYSTEM CTL SECTION
SUB SERVO SECTION
IC2201 CYLINDER MOTOR
VTR OP. U.
VCR LED
CAMERA LED
ON/OFF
PAUSE/ITEM
STORE
SHIFT
VCR/CAMERA
SET
FF/SEARCH (+)
COLOUR
REW/SEARCH (-)
PLAY/MENU
STOP/SET
MEMORY
DATA/TITLE
RESET
EJECT
QR6004
VCR LED DRIVE
CAM LED DRIVE
SCAN 0
SCAN 1
SCAN 3
KEY IN0
KEY IN1
KEY IN2
KEY IN3
KEY IN4
KEY IN5
EJECT
S/S ZOOM SW U.
DEW SENSOR
RECORDING START/STOP
ZOOM LEVEL
VREF
DEW
S/S
ZOOM A/D
MODE SW
POS-CON
POS-1
POS-2
POS-3
FROM/TO LUMI. CHRO. SECTION
DH. SW
AUTO TRACKING GAIN CONTROL
V. HEAD CTL
ENVE DET.
FROM POWER SECTION
TRI WAVE
QR2002
TRIWAVE
CAP SW
MFVR2
MFVR1
PB
EE
AUDIO MUTE
AUDIO FADE
VORP
TO LUMI. CHRO. SECTION
DELAY REC
R ERASE ON
QR6050
(S TAB ON)
SAFETY TAB
SAFETY SW
CYLINDER DRIVE CLOCK
CYLINDER ON
CYLINDER FG
CYLINDER PG
CYLINDER TORQUE
CL8207
CL8208
CL8210
DRIVE CLOCK
CYLINDER ON
FG
PG
CYLINDER EC
LINE
FACT MODE
REMOTE CTL
TALLY
HASW
LP
FROM/TO LUMI. CHRO. SECTION
VCC
F ON
TO CAMERA SECTION
C P ON
TO POWER SECTION
CAPSTAN R/S/F
CAPSTAN TORQUE
TORQUE LIMIT
Q6002
BUFFER
QR6014
CAP SW
TO POWER SECTION
CL8206
CAPSTAN FG
FG

Ref No. / MODE	Q6001			Q6002			Q6003			Q6004			Q6006					
	E	C	B	E	C	B	E	C	B	1	2	3	1	2	3	4	5	
STOP	2.5	4.8	2.2	0	0.3	0	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	
PLAY	2.7	4.8	2.4	3.0	3.0	2.4	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	
FF	3.0	4.8	2.6	3.0	3.0	2.4	0.1	7.6	0	4.2	7.0	4.5	0.5	0	0	2.8	0	

Ref No. / MODE	QR6001			QR6004						QR6005			QR6007			QR6008		
	E	C	B	1	2	3	4	5	6	E	C	B	E	C	B	E	C	B
STOP	3.7	3.7	2.6	3.0	0	-1.3	3.0	3.0	2.9	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8
PLAY	3.7	3.7	2.6	3.0	3.0	2.9	3.0	0	-1.0	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8
FF	3.7	3.7	2.6	3.0	3.0	3.0	3.0	0	-1.0	3.0	0	3.0	0	0	2.9	3.3	3.4	4.8

Ref No. / MODE	QR6009			QR6012			QR6013			QR6014			QR6050					
	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5	
STOP	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	
PLAY	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	
FF	0	3.0	0	7.0	7.0	0	3.0	3.0	0	0	7.3	0	0	0	0	0	0	

20
2.9
2.9
2.9

40
0.6
0.1
0.9

60
2.9
1.4
2.9

80
—
—
—

100
1.7
0.4
1.7

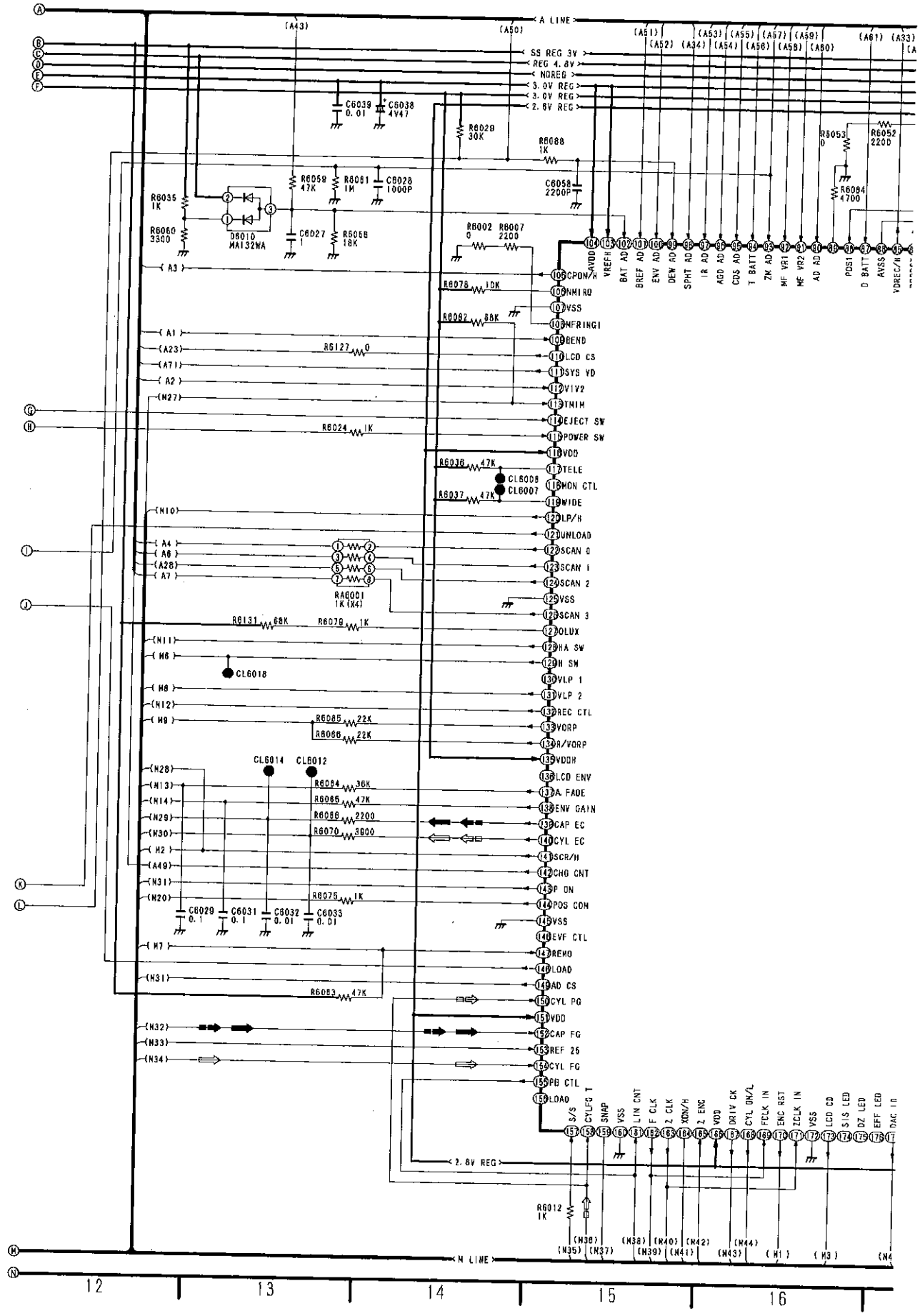
120
0
0
0

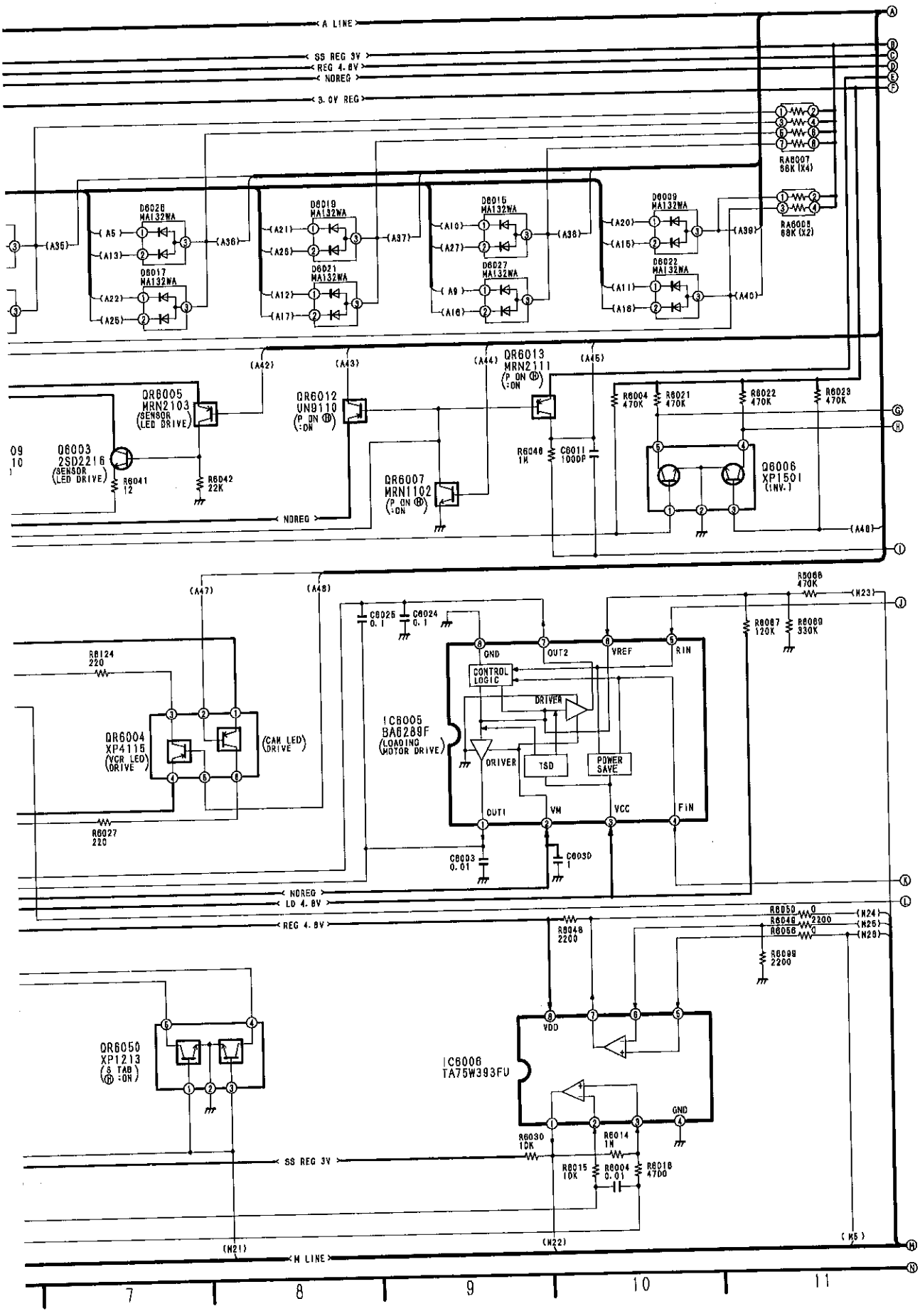
140
1.6
1.6
1.6

160
0
0
0

180
2.9
2.9
2.9

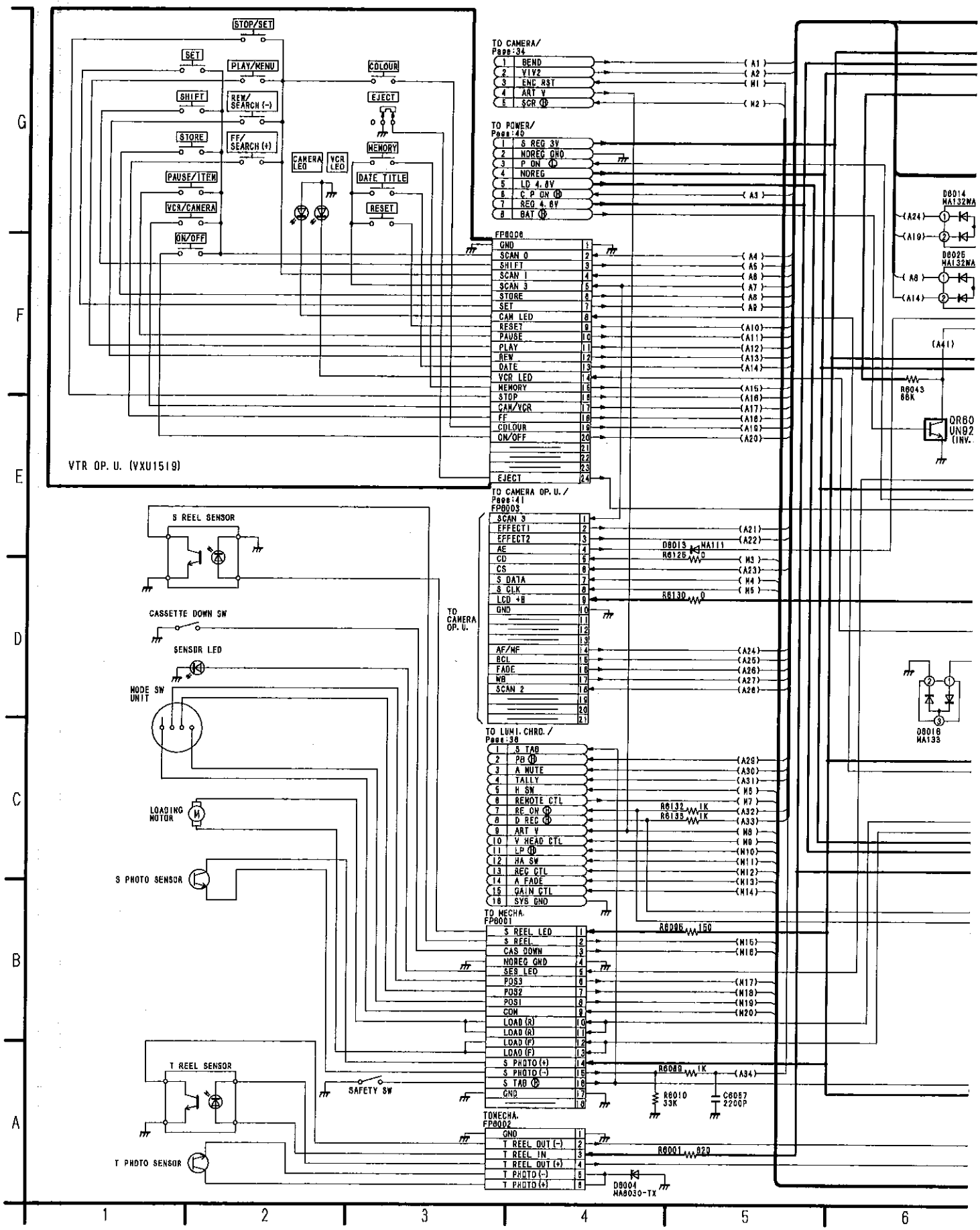
200
0.7
0.7
0.7

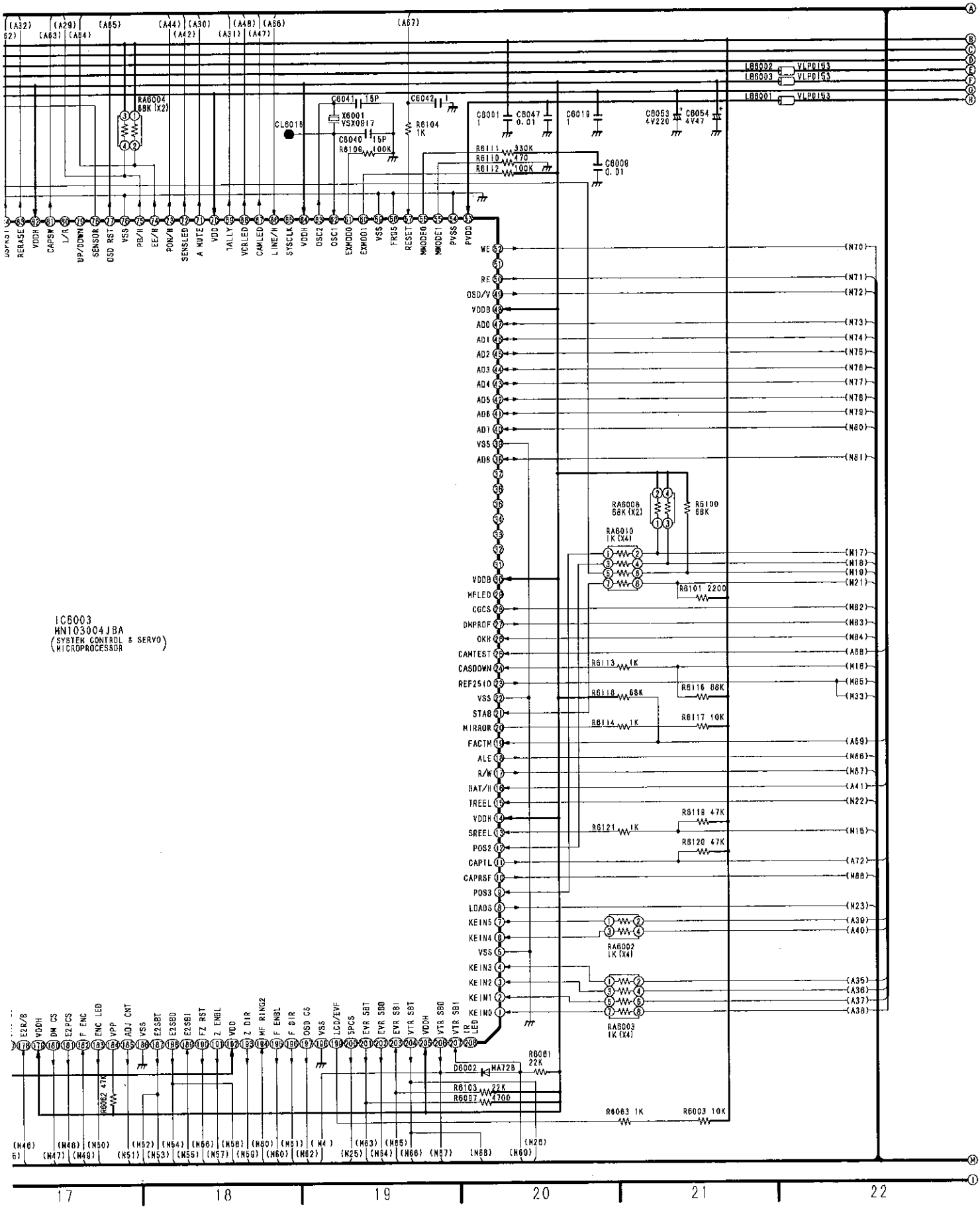

A LINE
SS REG 3V
REG 4.8V
NOREG
3.0V REG
3.0V REG
2.8V REG
C6039 0.01
C6038 4V47
R6029 30K
R6088 1K
C6058 2200P
R6053 0
R6052 220D
R6084 4700
R6035 1K
R6060 3300
D6010 MA132WA
R6059 47K
R6081 1M
C6028 1000P
C6027 1
R6056 18K
R6002 0
R6007 220D
R6078 10K
R6082 68K
R6127 0
R6024 1K
R6036 47K
R6037 47K
CL6008
CL6007
CL6018
RA6001 1K (X4)
R6131 68K
R6079 1K
R6085 22K
R6086 22K
CL6014
CL6012
R6084 36K
R6085 47K
R6086 220D
R6070 300D
R6075 1K
C6029 0.1
C6031 0.1
C6032 0.01
C6033 0.01
R6083 47K
R6012 1K
H LINE
12
13
14
15
16


A LINE
SS REG 3V
REG 4.8V
NOREG
3.0V REG
RA6007 68K (X4)
RA6008 68K (X2)
D6028 MA132WA
D6017 MA132WA
D6019 MA132WA
D6021 MA132WA
D6015 MA132WA
D6027 MA132WA
D6009 MA132WA
D6022 MA132WA
Q6005 MRN2103 (SENSOR LED DRIVE)
Q6012 UN9110 (P ON :ON)
Q6013 MRN2111 (P ON :ON)
Q6003 2SD2216 (SENSOR LED DRIVE)
R6041 12
R6042 22K
Q6007 MRN1102 (P ON :ON)
R6040 1M
C6011 1000P
R6004 470K
R6021 470K
R6022 470K
R6023 470K
Q6006 XP1501 (INV.)
R6066 470K
R6067 120K
R6068 330K
C6025 0.1
C6024 0.1
R6124 220
Q6004 XP4115 (VCR LED DRIVE)
(CAM LED DRIVE)
R6027 220
IC6005 BA6289F (LOADING MOTOR DRIVE)
GND
OUT2
VREF
RIN
CONTROL LOGIC
DRIVER
TSD
POWER SAVE
OUT1
VM
VCC
FIN
C6003 0.01
C6030 1
LD 4.8V
R6048 2200
R6050 0
R6049 2200
R6056 0
R6069 2200
Q6050 XP1213 (S TAB :ON)
IC6006 TA75W393FU
VDD
GND
R6030 10K
R6014 1M
R6015 10K
R6004 0.01
R6018 47D0
M LINE
7
8
9
10
11

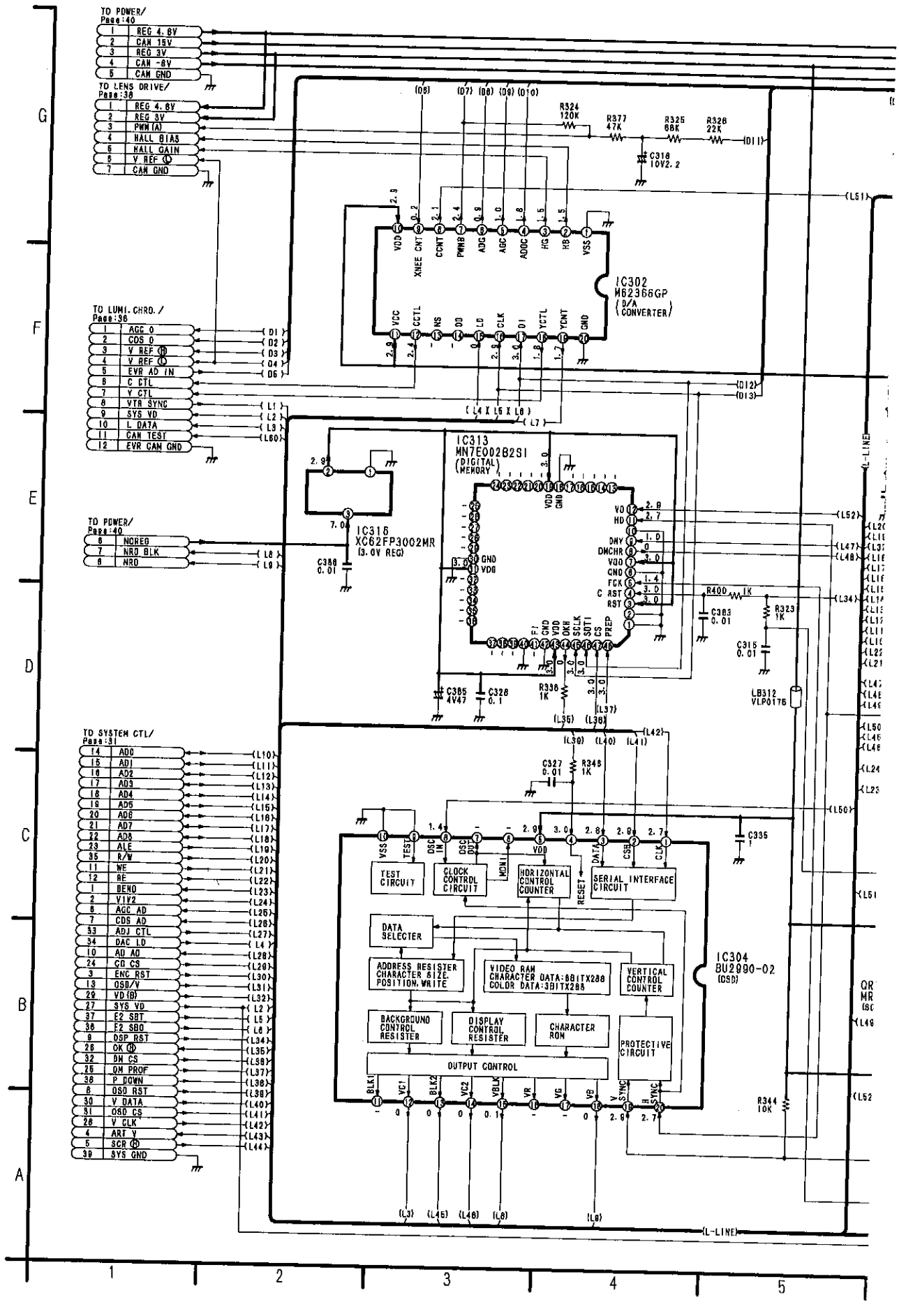
9 SCHEMATIC DIAGRAM

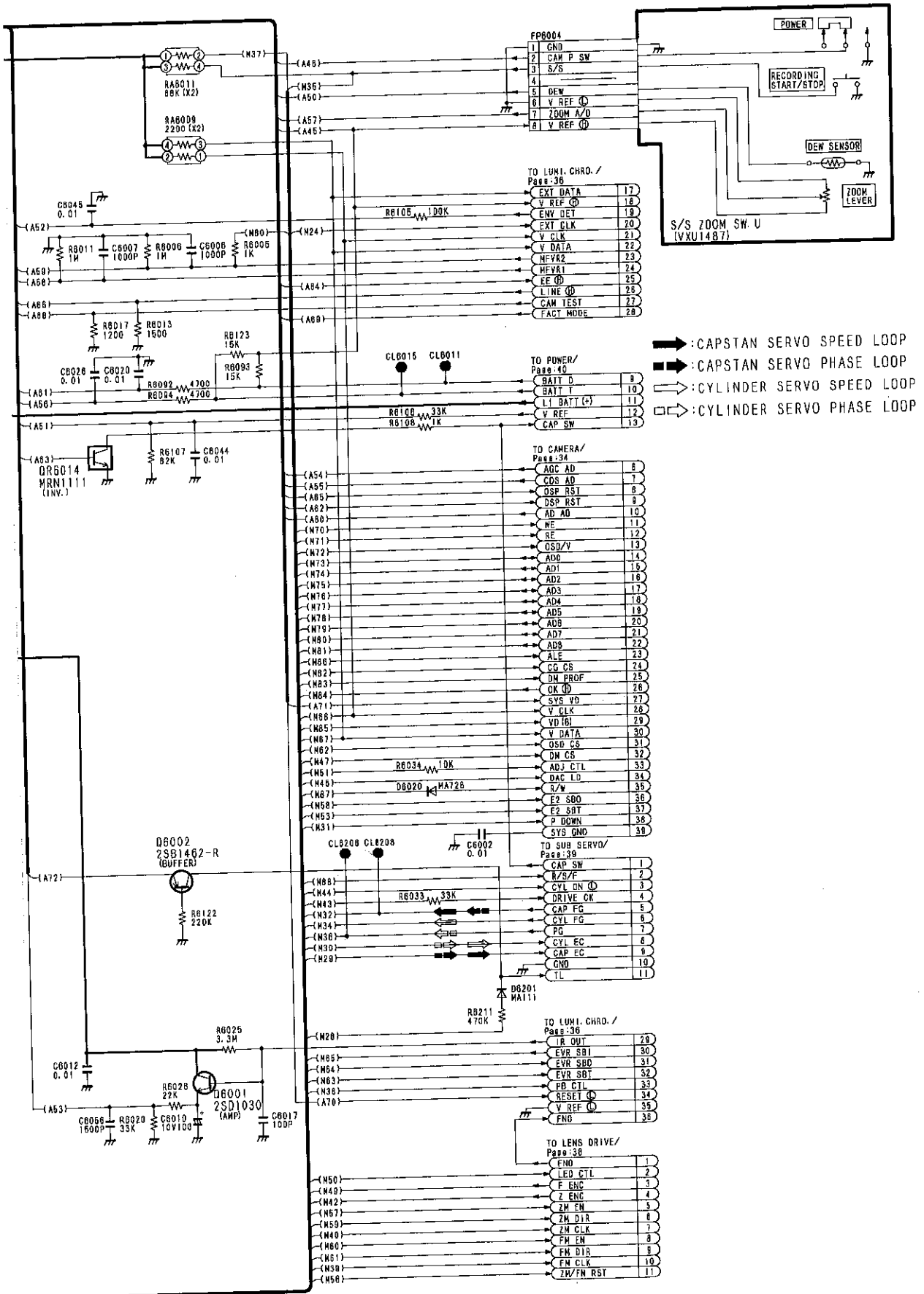
9.1. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM




IC6003
HN103004JBA
(SYSTEK CONTROL & SERVO MICROPROCESSOR)
RA6004 68K (X2)
X6001 VSX0817
C6041 15P
C6042 1
C6040 15P
R6109 100K
R6104 1K
CL6015
C6001 1
C6047 0.01
C6019 1
C6053 4V220
C6054 4V47
R6111 330K
R6110 470
R6112 100K
C6009 0.01
L86002 VLPD153
L86003 VLPD153
L86001 VLPD153
RA6008 68K (X2)
R6100 68K
RA6010 1K (X4)
R6101 2200
R6113 1K
R6116 68K
R6118 68K
R6117 10K
R6114 1K
R6119 47K
R6121 1K
R6120 47K
RA6002 1K (X4)
RA6003 1K (X4)
R6001 22K
D6002 MA728
R6103 22K
R6097 4700
R6083 1K
R6003 10K
R6002 47K
WE
RE
OSD/V
ADO
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
VSS
VDDB
MFLED
CGCS
DMPROF
OKH
CAMTEST
CASDOWN
REF25ID
STAB
MIRROR
FACTM
ALE
R/W
BAT/H
TREEL
VDDH
SREEL
POS2
CAPTL
CAPRSF
POS3
LOADS
KEIN5
KEIN4
KEIN3
KEIN2
KEIN1
KEIN0
E2R/B
DM CS
E2PCS
F ENC
ENC LED
VPP
ADJ CNT
E2SBT
E2SBD
E2SBI
FZ RST
Z ENBL
Z DIR
MF RING2
F ENBL
F DIR
OSD CS
LCD/EVF
SPCS
EVR SBT
EVR SBO
EVR SBI
VTR SBT
VTR SBO
VTR SBI
IR LED
17
18
19
20
21
22

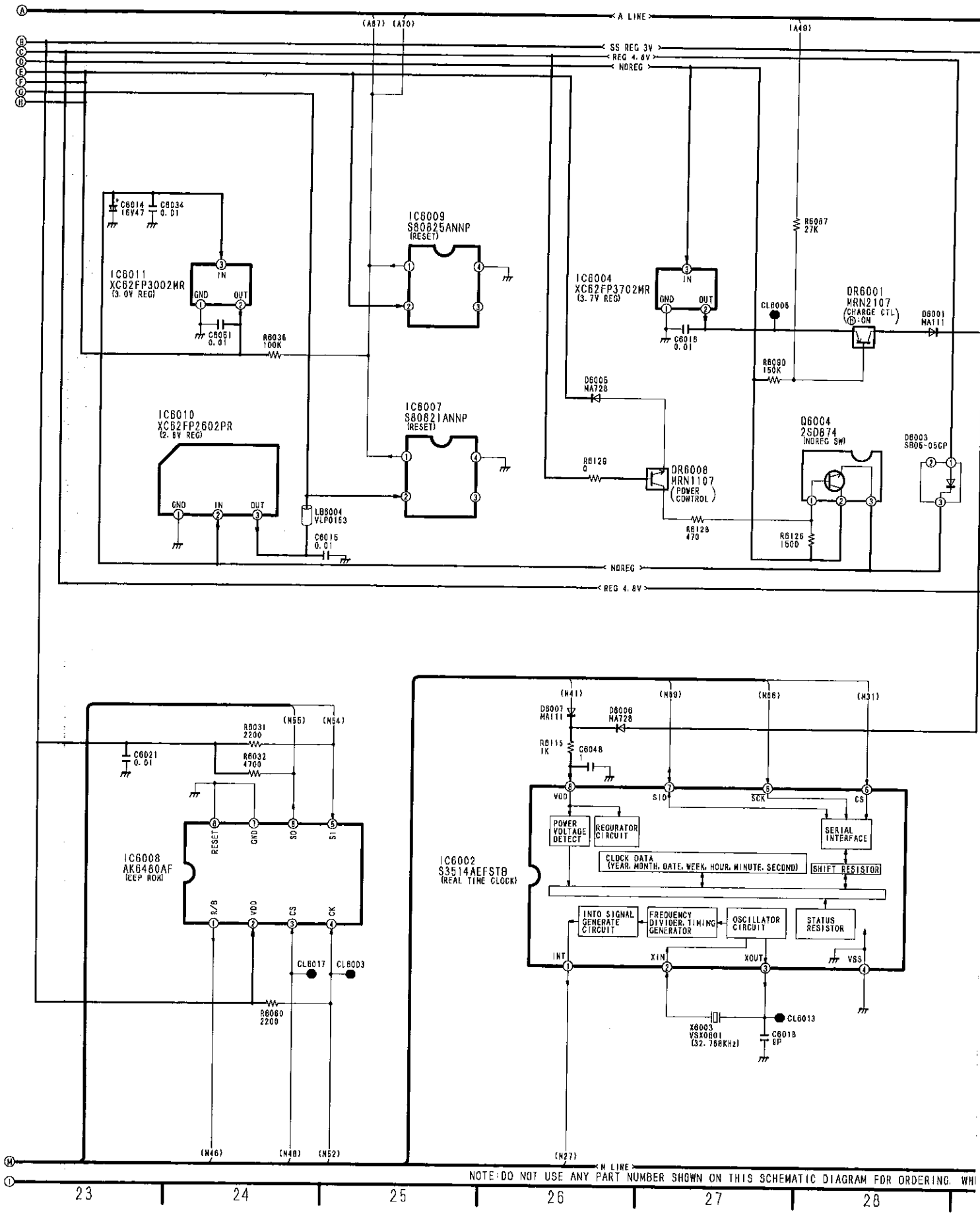
9.2. CAMERA SCHEMATIC DIAGRAM

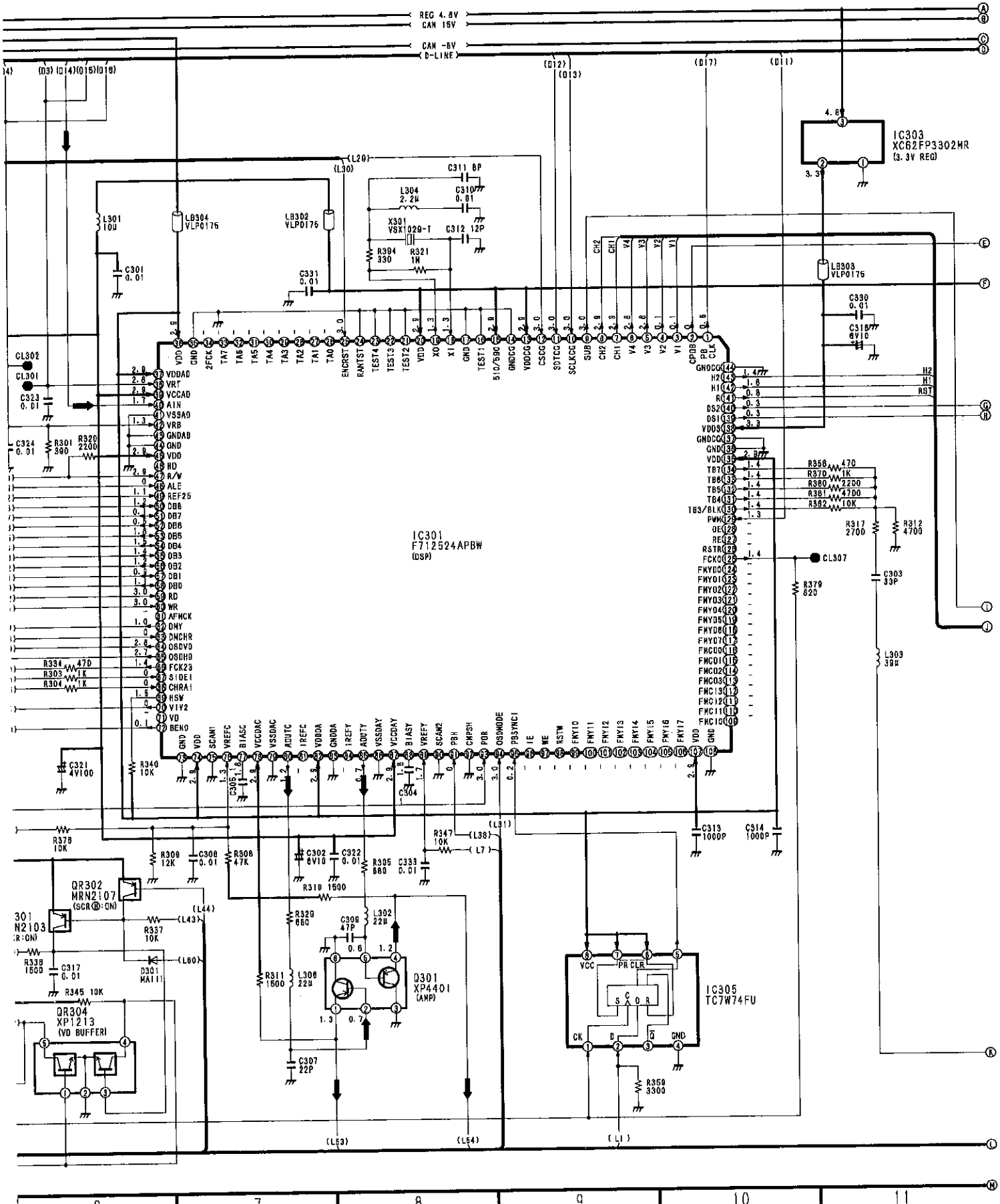




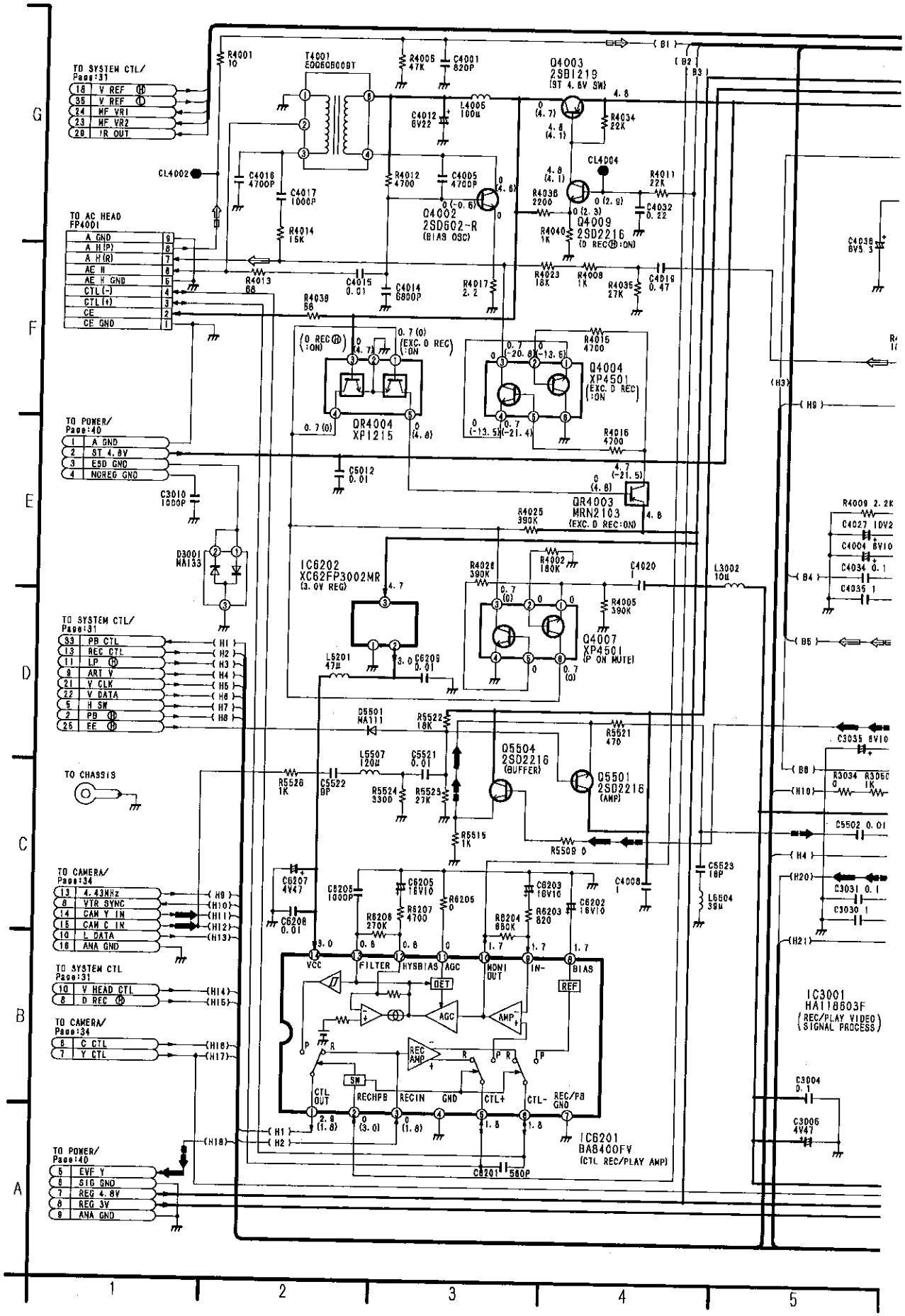
EN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

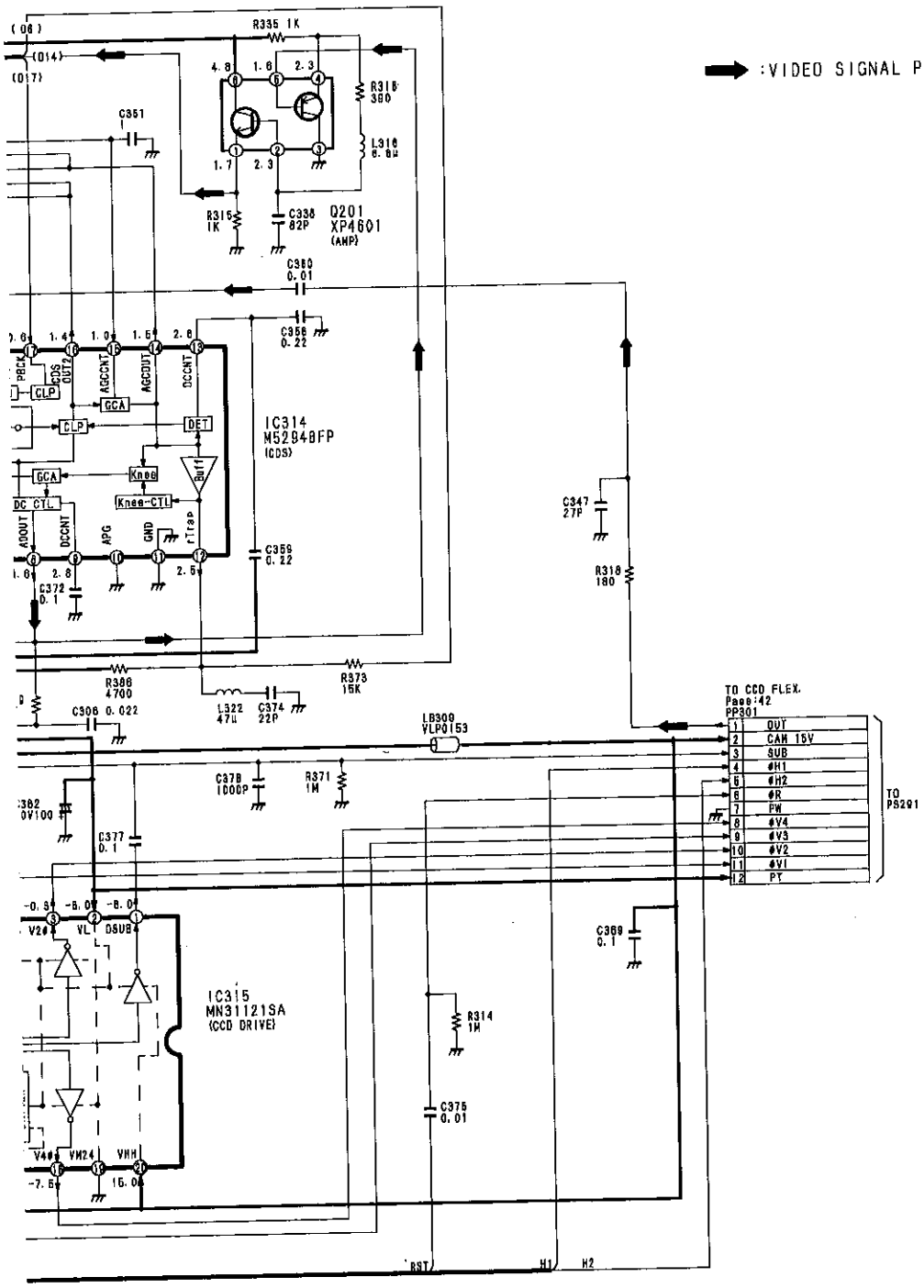
29 30 31 32 33


A LINE
SS REG 3V
REG 4.8V
NOREG
(A87) (A70)
(A40)
C6014 16V47
C6034 0.01
IC6011 XC62FP3002MR (3.0V REG)
C6051 0.01
R6036 100K
IC6009 S80825ANNP (RESET)
IC6004 XC62FP3702MR (3.7V REG)
C6016 0.01
R6087 27K
CL6005
DR6001 MRN2107 (CHARGE CTL)
D6001 MA111
R6090 150K
D6005 MA728
IC6010 XC62FP2602PR (2.6V REG)
IC6007 S80821ANNP (RESET)
LB6004 VLP0163
C6015 0.01
R6129 0
DR6008 MRN1107 (POWER CONTROL)
R6128 470
D6004 2SD874 (NOREG SW)
R6126 150Ω
D6003 SB05-05CP
(N55) (N54)
R6031 2200
R6032 4700
C6021 0.01
IC6008 AK6480AF (EEP ROM)
RESET GND SO SI
R/B VDD CS CK
CL6017 CL6003
R6060 2200
(N46) (N48) (N52)
(N41) (N89) (N86) (N31)
D6007 MA111
D6006 MA728
R6115 1K
C6048 1
IC6002 S3514AEFST8 (REAL TIME CLOCK)
VDD SIO SCK CS
POWER VOLTAGE DETECT
REGURATOR CIRCUIT
SERIAL INTERFACE
CLOCK DATA (YEAR, MONTH, DATE, WEEK, HOUR, MINUTE, SECOND)
SHIFT RESISTOR
INTO SIGNAL GENERATE CIRCUIT
FREQUENCY DIVIDER, TIMING GENERATOR
OSCILLATOR CIRCUIT
STATUS RESISTOR
INT XIN XOUT VSS
X6003 VSX0601 (32.768KHz)
CL6013
C6018 8P
(N27)
M LINE
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHI
23 24 25 26 27 28

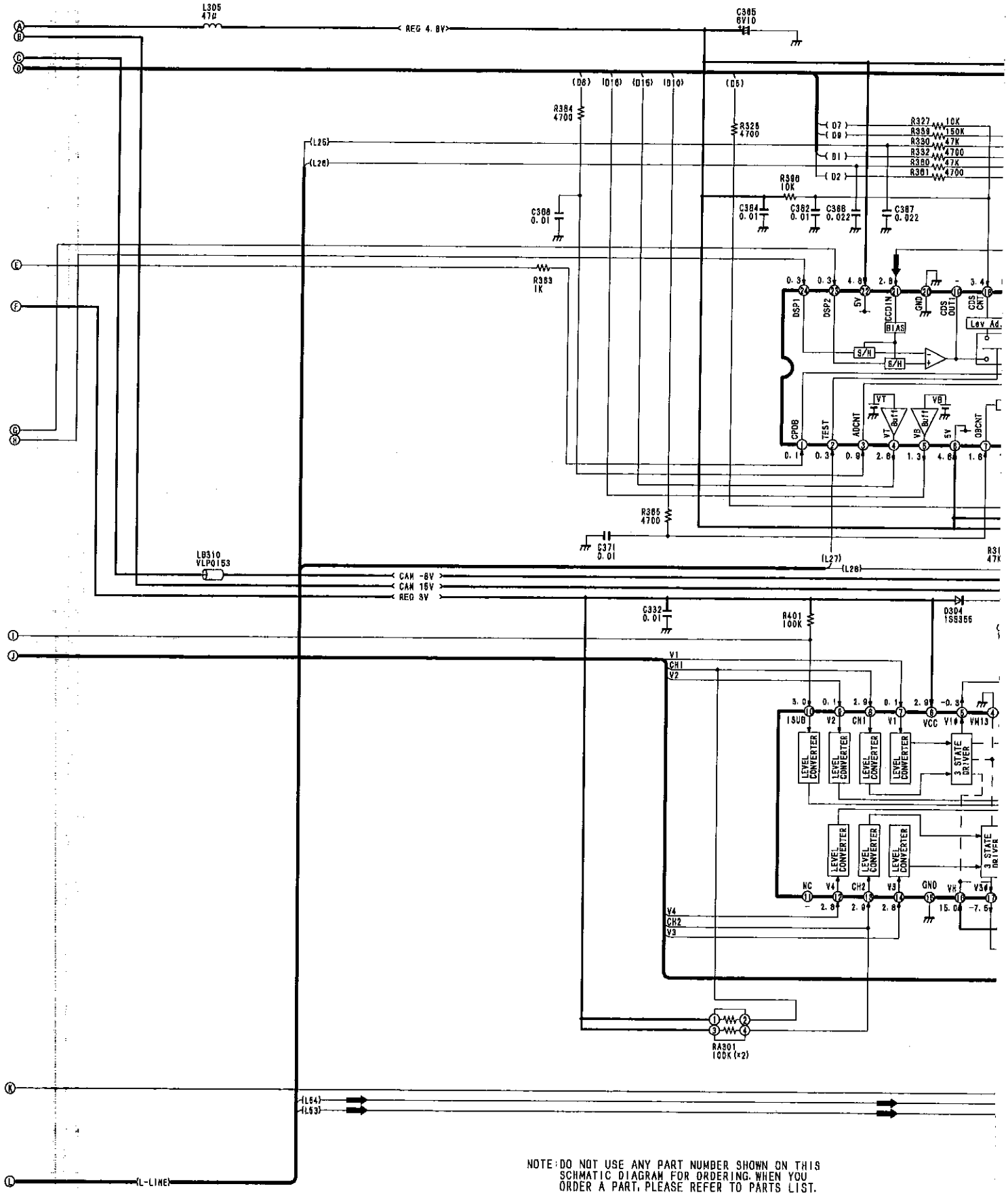

REG 4.8V
CAN 15V
CAN -6V
D-LINE
IC303
XC62FP3302MR
(3.3V REG)
IC301
F712524APBW
(DSP)
IC305
TC7W74FU
Q301
XP4401
(AMP)
QR302
MRN2107
QR304
XP1213
(VD BUFFER)
D301
MA111
X301
VSX1029-T
L304
2.2μ
C311 8P
C310
0.01
C312 12P
R394
330
R321
1W
L301
10μ
L8304
VLP0176
L8302
VLP0176
L8303
VLP0176
C301
0.01
C331
0.01
C330
0.01
C318
6V10
CL302
CL301
CL307
C323
0.01
C324
0.01
R301
390
R320
2200
R358
470
R370
1K
R360
2200
R361
4700
R362
10K
R317
2700
R312
4700
R379
820
C303
33P
L303
39μ
C313
1000P
C314
1000P
C321
4V100
R340
10K
R378
10K
R334
47D
R303
1K
R304
1K
R309
12K
C308
0.01
R308
47K
C302
6V10
C322
0.01
R305
680
C333
0.01
R347
10K
R310
1500
R337
10K
R338
1500
C317
0.01
R345
10K
R329
680
C309
47P
L302
22μ
R311
1500
L306
22μ
C307
22P
R359
3300
VDDAD
VRT
VCCAD
AIN
VSSAD
VRB
GNDAD
GND
VDD
HD
R/W
ALE
REF25
DB8
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
RD
WR
AFHCK
DNY
DNCHR
OSDVD
OSDHD
FCK23
SIDE1
CHRA1
HSW
V1V2
VD
BEND
GNDCG
H2
H1
RC
DS2
DS1
VDDS
GNDCG
GND
VDD
TB7
TB6
TB5
TB4
TB3/BLK
PWM
OE
REC
RSTR
FCKO
FMYDO
FMYD1
FMYD2
FMYD3
FMYD4
FMYD5
FMYD6
FMYD7
FMCD0
FMCD1
FMCD2
FMCD3
FMC13
FMC12
FMC11
FMC10
GND
VDD
SCAN1
VREFC
BIASC
VCCDAC
VSSDAC
ADUTC
1REFC
VDDDA
GNDDA
1REFY
ADUTY
VSSDAY
VCCDAY
BIASY
VREFY
SCAN2
PBH
CMPSH
PDR
OSDMODE
PBSYNCI
IE
WE
RSTW
FMY10
FMY11
FMY12
FMY13
FMY14
FMY15
FMY16
FMY17
VDD
GND
2FCK
TA7
TA6
TA5
TA4
TA3
TA2
TA1
TA0
ENCRST
RAMTST
TEST4
TEST3
TEST2
VDD
XO
XI
GND
TEST1
510/590
GNDCG
VDDCG
CSCG
SDTCG
SCLKCG
SUB
CH2
CH1
V4
V3
V2
V1
CPDB
PB
CLK
VCC
PR
CLR
S
C
D
R
CK
D
CI
GND
(L20)
(L30)
(L38)
(L7)
(L31)
(L44)
(L43)
(L60)
(L53)
(L54)
(L1)
(D3)
(D14)
(D15)
(D19)
(D12)
(D13)
(D17)
(D11)
H2
H1
RST

9.3. VIDEO & AUDIO SCHEMATIC DIAGRAM

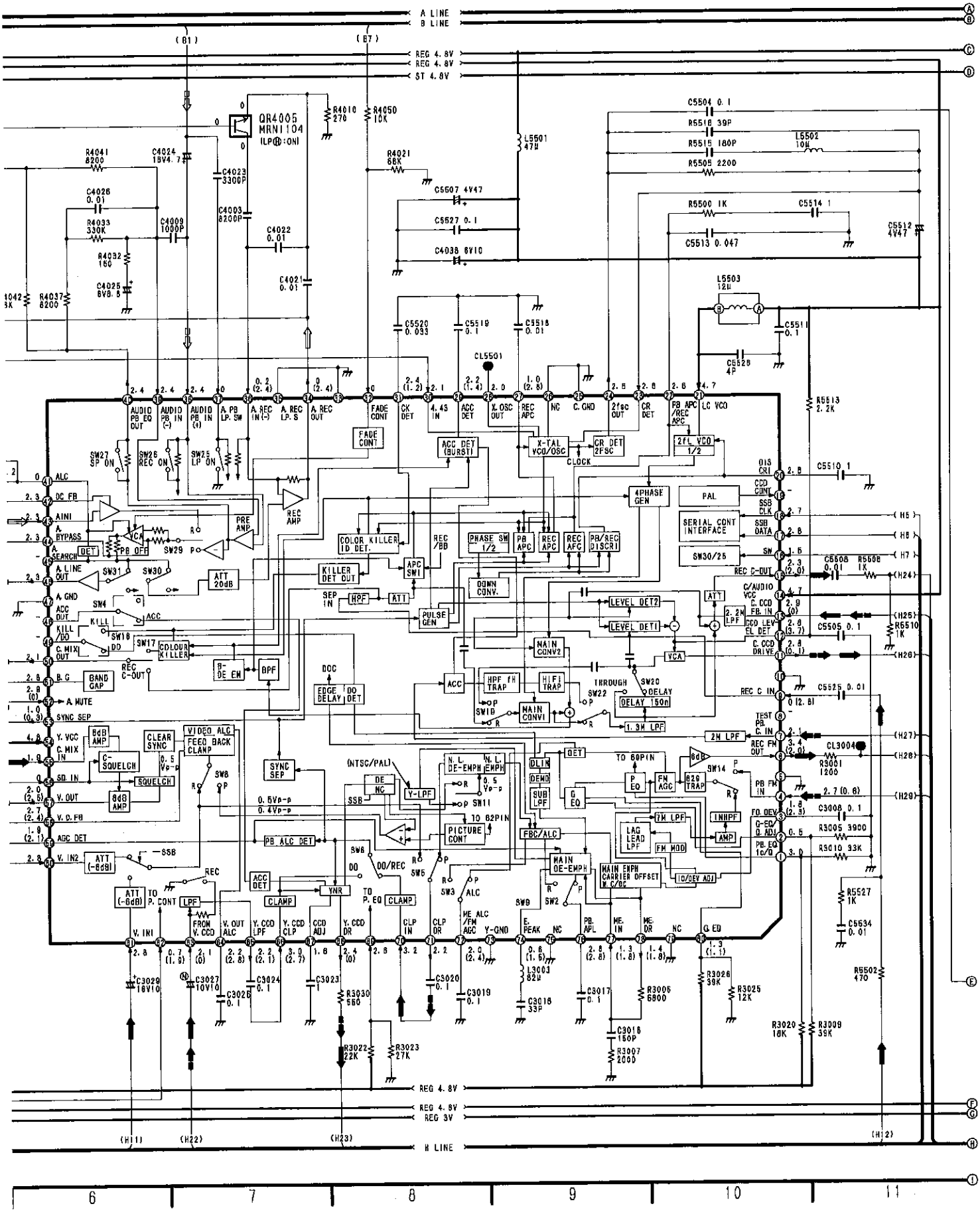




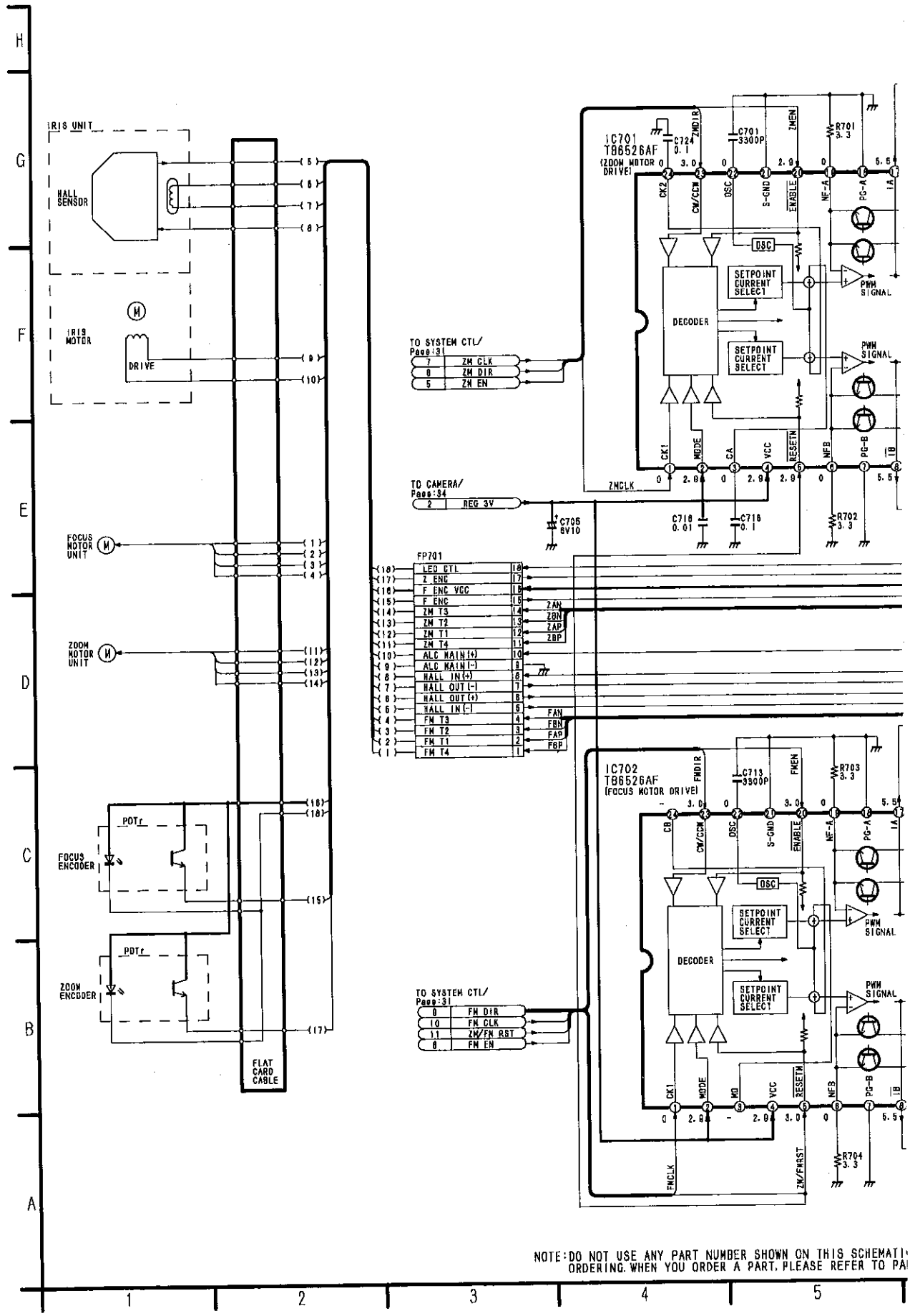
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

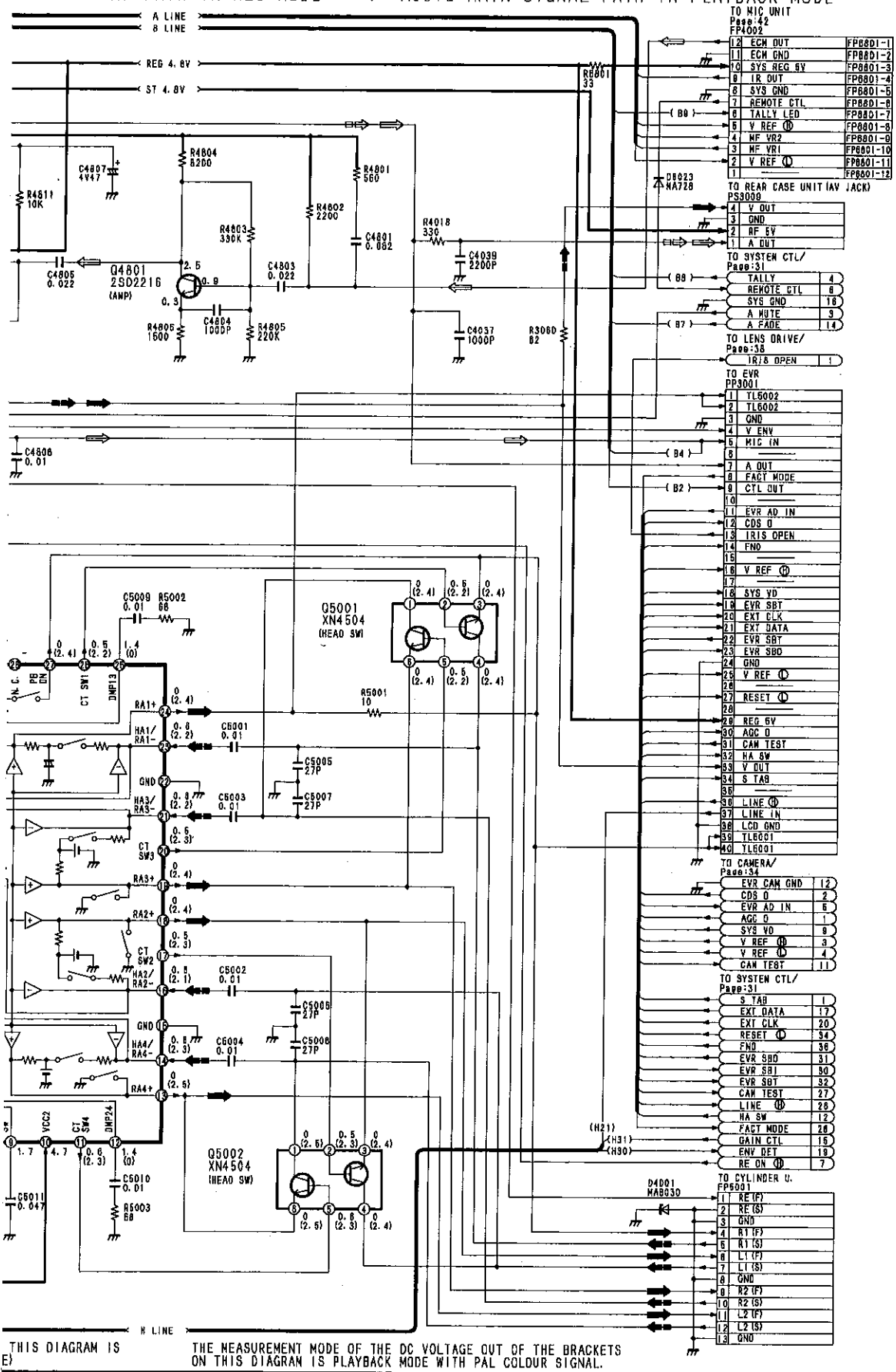

A LINE
B LINE
REG 4.8V
REG 4.8V
ST 4.8V
QR4005
MRN1104
(LP⊕:ON)
L5501
47μ
L5502
10μ
L5503
12μ
CL5501
AUDIO PB EQ OUT
AUDIO PB IN (-)
AUDIO PB IN (+)
A. PB LP. SW
A. REC IN(-)
A. REC LP. S
A. REC OUT
FADE CONT
CK DET
4.43 IN
ACC DET
X. OSC OUT
REC APC
NC
C. GND
2fsc OUT
CR DET
PB APC /REC APC
LC VCO
R5513 2.2K
FADE CONT
ACC DET (BURST)
X-TAL VCO/OSC
CR DET 2FSC
CLOCK
2FL VCO 1/2
4PHASE GEN
PAL
SERIAL CONT INTERFACE
SW30/25
SW27 SP ON
SW26 REC ON
SW25 LP ON
PRE AMP
REC AMP
PB OFF
SW29
SW31
SW30
ATT 20dB
COLOR KILLER ID DET.
KILLER DET OUT
APC SW1
REC /BB
PHASE SW 1/2
PB APC
REC APC
REC AFC
PB/REC DISCRI
DOWN CONV.
SEP IN
HPF
ATT
PULSE GEN
LEVEL DET2
LEVEL DET1
MAIN CONV2
MAIN CONV1
ACC
HPF FM TRAP
HIFI TRAP
THROUGH
SW22
SW20
DELAY
DELAY 150n
1.3M LPF
2M LPF
2.2M LPF
VCA
ATT
SW4
SW16
SW17
COLOUR KILLER
B-DE EM
BPF
BAND GAP
REC C-OUT
EDGE DELAY
DO DET
DOC
SYNC SEP
8dB AMP
CLEAR SYNC
VIDEO ALC FEED BACK CLAMP
C-SQUELCH
SQUELCH
SW8
(NTSC/PAL)
DE NC
Y-LPF
SSB
N.L. DE-EMPH
N.L. EMPH
PICTURE CONT
TO 62PIN
PB. ALC DET
SW6
DO
DO/REC
SW5
SW3
ALC
SW9
SW2
ACC DET
YNR
CLAMP
TO P. CONT
LPF
FROM V. CCD
TO P. EQ
DLIN
DEMD
SUB LPF
Q EQ
P EQ
FM AGC
629 TRAP
SW14
TO 60PIN
FBC/ALC
LAG LEAD LPF
FM LPF
FM MOD
INNPF
AMP
MAIN DE-EMPH
MAIN ENPH CARRIER OFFSET W. C/DC
IQ/DEV ADJ
REC FM OUT
PB FM IN
FO. DEV
G-EQ Q. ADJ
PB. EQ fc/Q
CL3004
R3001 1200
C3008 0.1
R3005 3900
R3010 93K
TEST PB. C. IN
REC C IN
C. CCD DRIVE
CCD LEVEL DET
C. CCD FB. IN
REC C-OUT
SW/ SSB CLK
SSB DATA
C/AUDIO VCC
CCD CONT
015 CRI
C5510 1
C5505 0.1
R5510 1K
C5525 0.01
C5508 0.01
R5508 1K
C5504 0.1
R5516 39P
R5515 180P
R5505 2200
R5500 1K
C5514 1
C5513 0.047
C5512 4V47
C5507 4V47
C5527 0.1
C4038 6V10
C5520 0.033
C5519 0.1
C5518 0.01
C5511 0.1
C5528 4P
R4041 8200
C4024 16V4.7
C4023 3300P
C4026 0.01
R4033 330K
C4009 1000P
R4032 150
C4025 6V8.5
C4022 0.01
C4021 0.01
R4042 5K
R4037 8200
R4010 270
R4050 10K
R4021 68K
V. IN1
V. IN2
V. OUT ALC
Y. CCD LPF
Y. CCD CLP
CCD ADJ
Y. CCD DR
CLP IN
CLP DR
ME. ALC /FM AGC
Y-GND
E. PEAK
PB. APL
ME. IN
ME. DR
G. ED
C3029 16V10
C3027 10V10
C3026 0.1
C3024 0.1
C3023 1
C3030 560
C3022 22K
C3023 27K
C3020 0.1
C3019 0.1
L3003 82μ
C3018 33P
C3017 0.1
R3005 6800
C3016 150P
R3007 2000
R3026 39K
R3025 12K
R3020 18K
R3009 39K
R5502 470
R5527 1K
C5634 0.01
(H1)
(H2)
(H3)
(H4)
(H5)
(H6)
(H7)
(H11)
(H22)
(H23)
(H12)
6
7
8
9
10
11

9.4. LENS DRIVE SCHEMATIC DIAGRAM

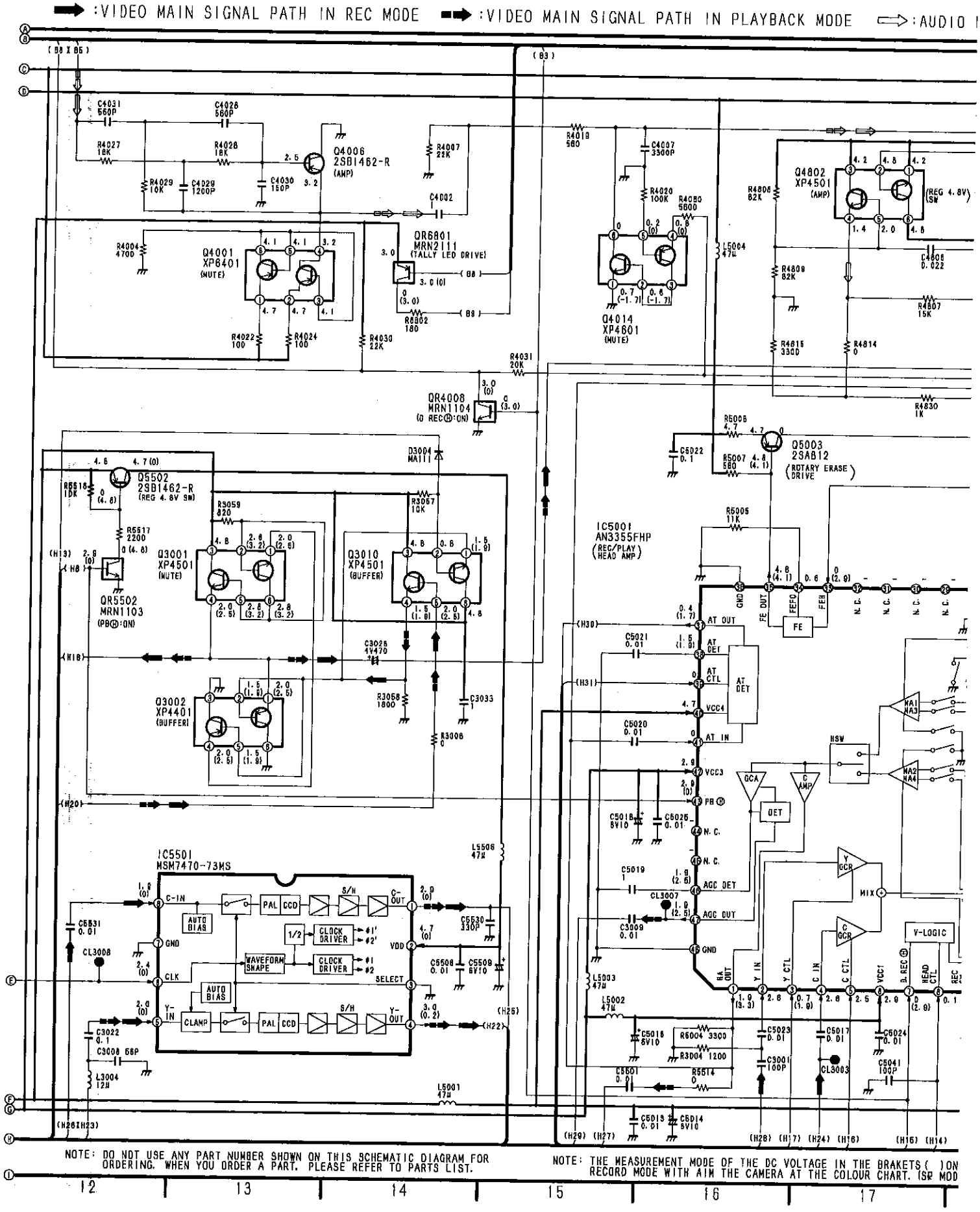


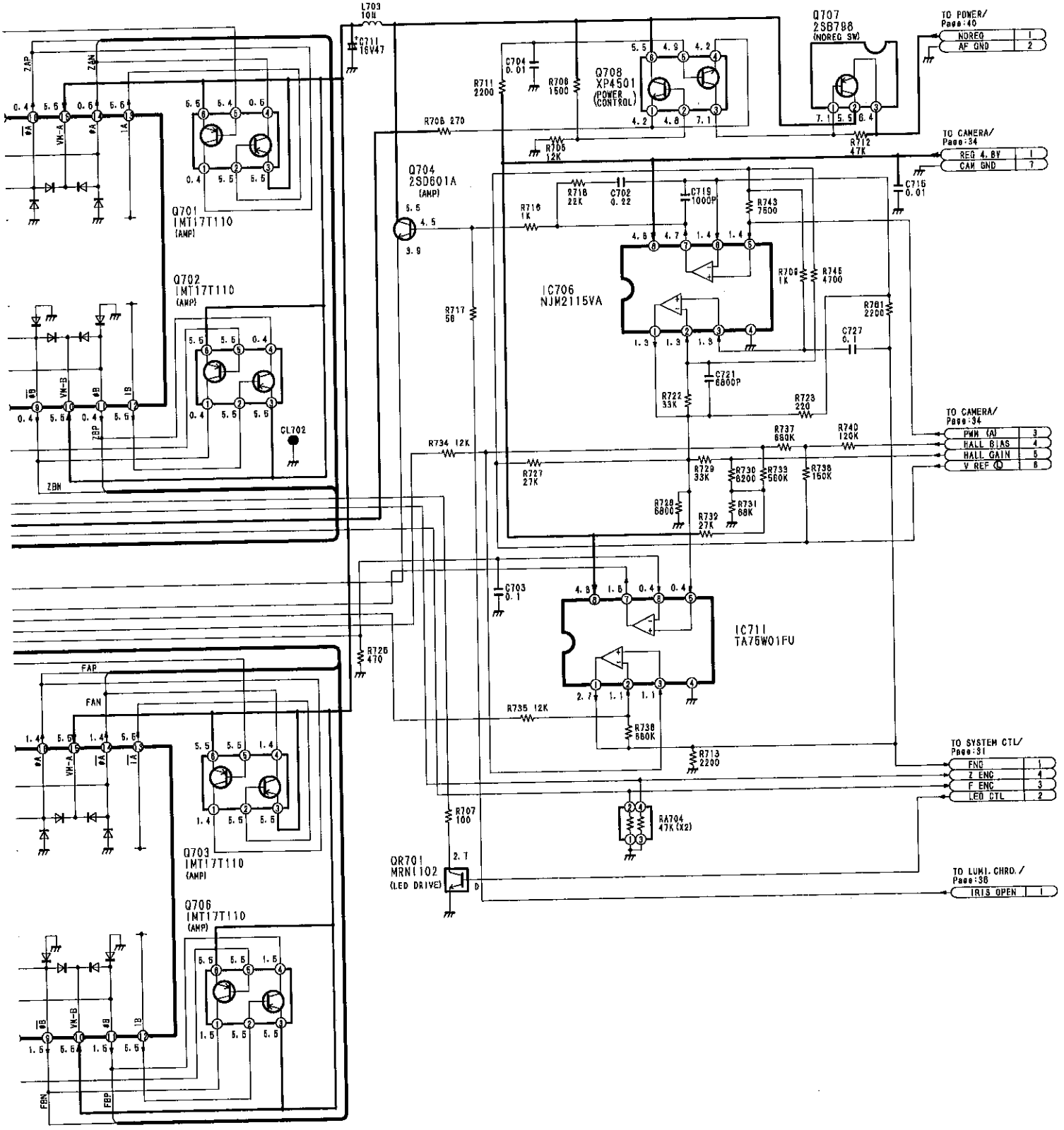
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATI
ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PA

MAIN SIGNAL PATH IN REC MODE ⇨ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



18	19	20	21	22


:VIDEO MAIN SIGNAL PATH IN REC MODE
:VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
:AUDIO
Q4006 2SB1462-R (AMP)
Q4001 XP6401 (MUTE)
QR6801 MRN2111 (TALLY LED DRIVE)
Q4014 XP4601 (MUTE)
Q4802 XP4501 (AMP)
QR4008 MRN1104 (D REC:ON)
Q5003 2SA812 (ROTARY ERASE DRIVE)
Q5502 2SB1462-R (REG 4.8V SW)
QR5502 MRN1103 (PB:ON)
Q3001 XP4501 (MUTE)
Q3010 XP4501 (BUFFER)
Q3002 XP4401 (BUFFER)
IC5001 AN3355FHP (REC/PLAY HEAD AMP)
IC5501 MSM7470-73MS
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART. PLEASE REFER TO PARTS LIST.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS( )ON RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART. ISP MOD

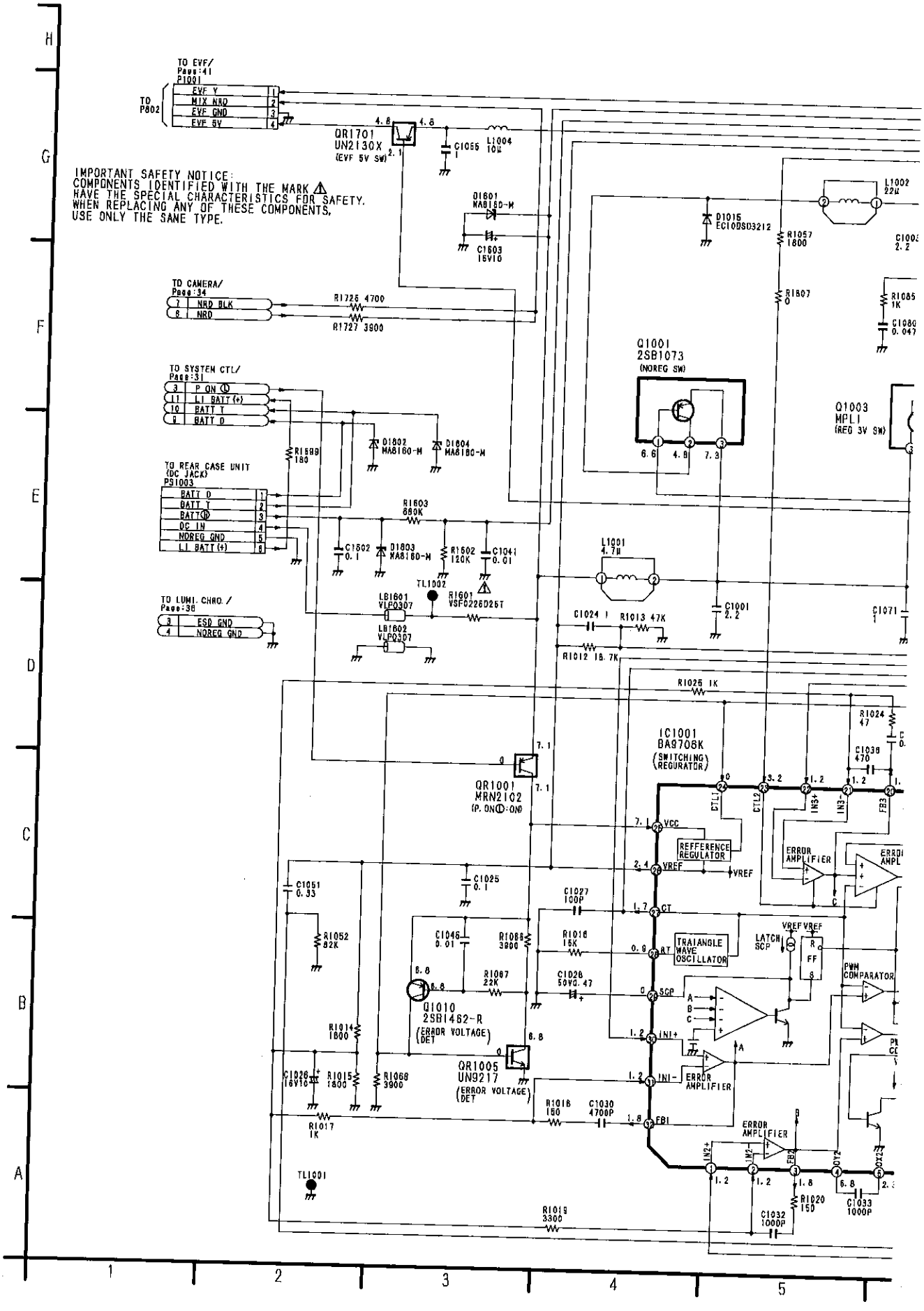


C DIAGRAM FOR
RTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE
WITH AIM THE CAMERA AT THE LOGARITHMIC GRAY SCALE CHART.

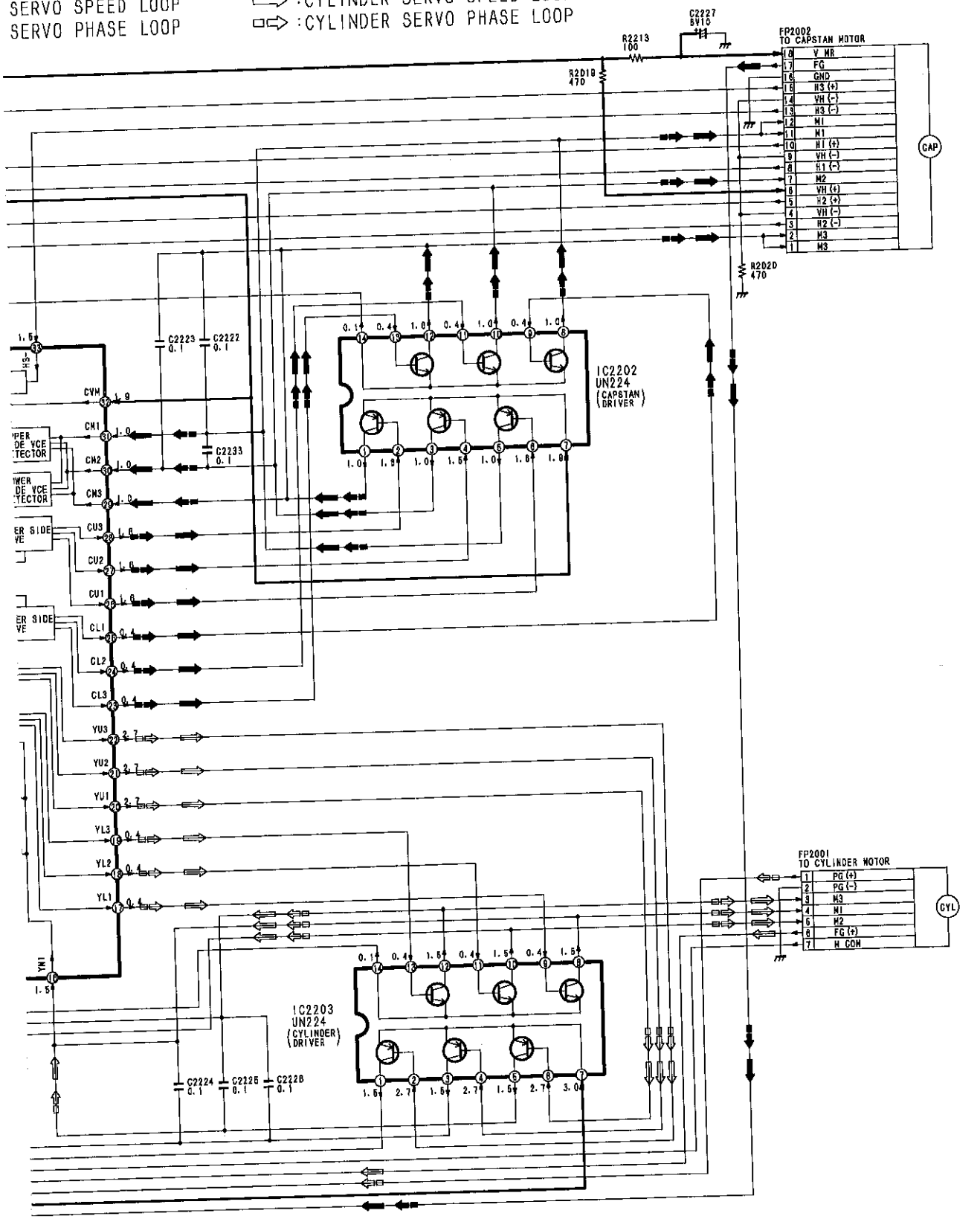
6 7 8 9 10 11

9.6. POWER SCHEMATIC DIAGRAM



SERVO SPEED LOOP
SERVO PHASE LOOP

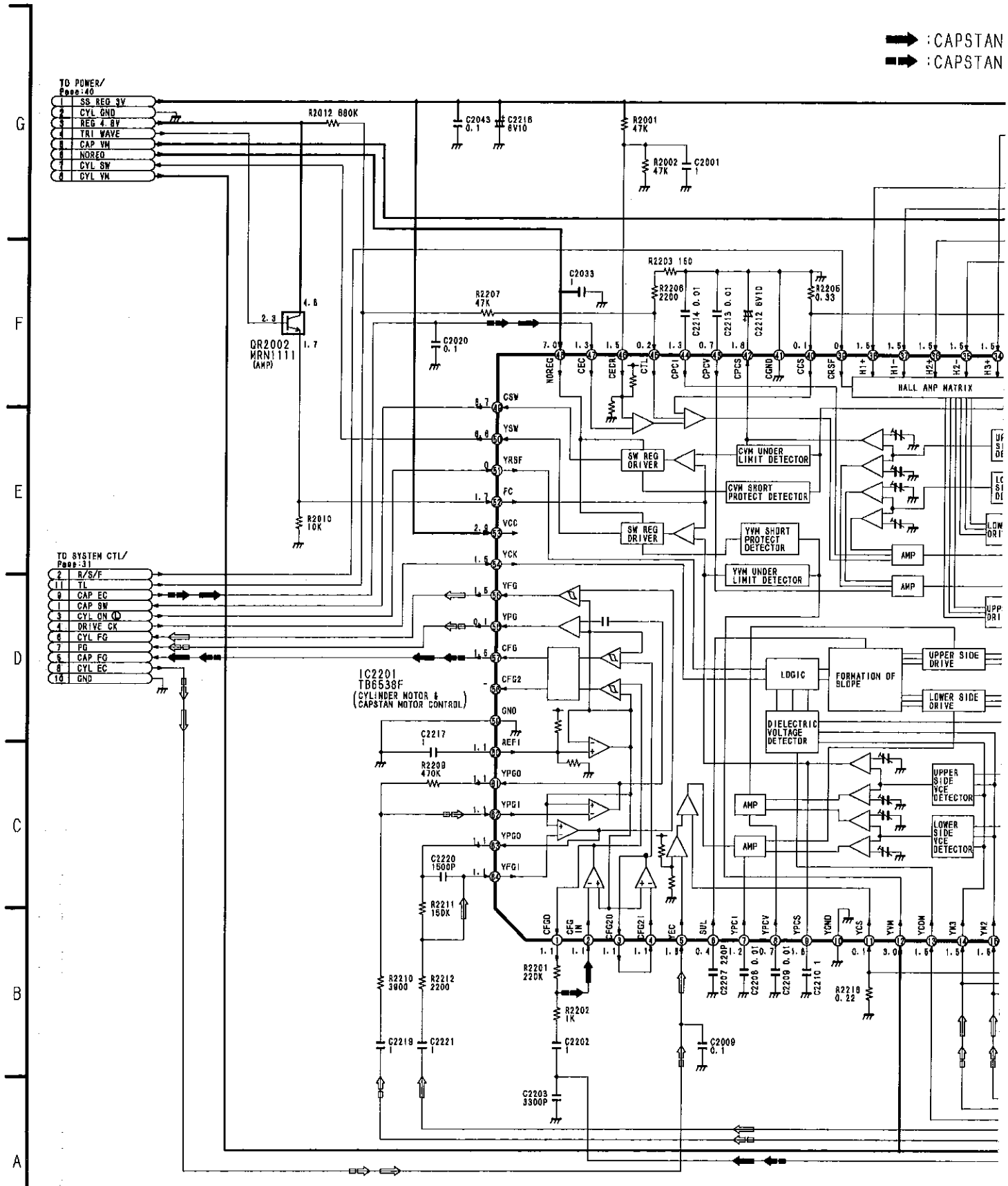
⇨ :CYLINDER SERVO SPEED LOOP
⇨ :CYLINDER SERVO PHASE LOOP



DE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
DE OF THE DC VOLTAGE IN THE BRACKETS( ) ON THIS DIAGRAM IS RECORD MODE. (SP MODE)

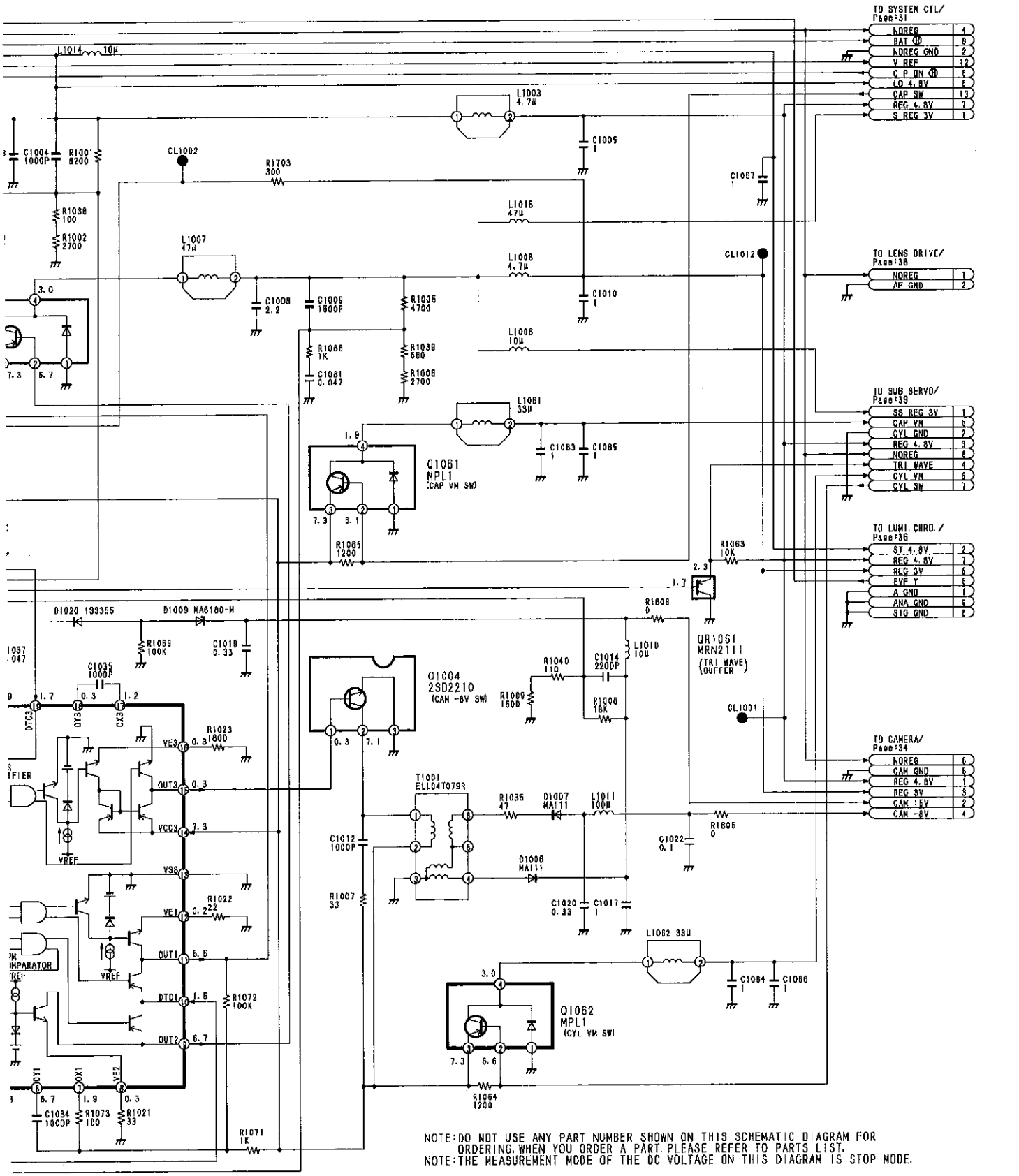
7 8 9 10 11

9.5. SUB SERVO SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

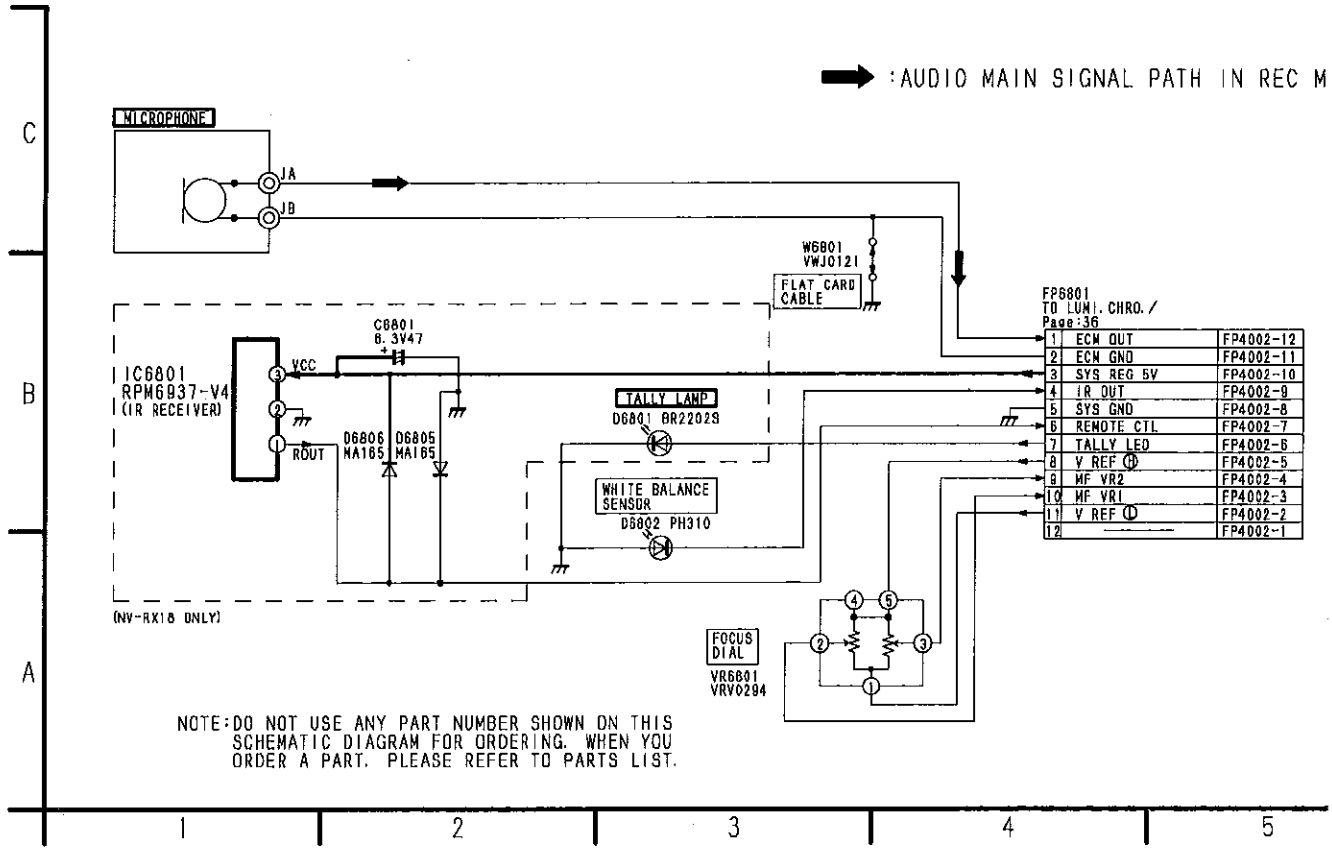
NOTE:THE MEASUREMENT MO
THE MEASUREMENT MO



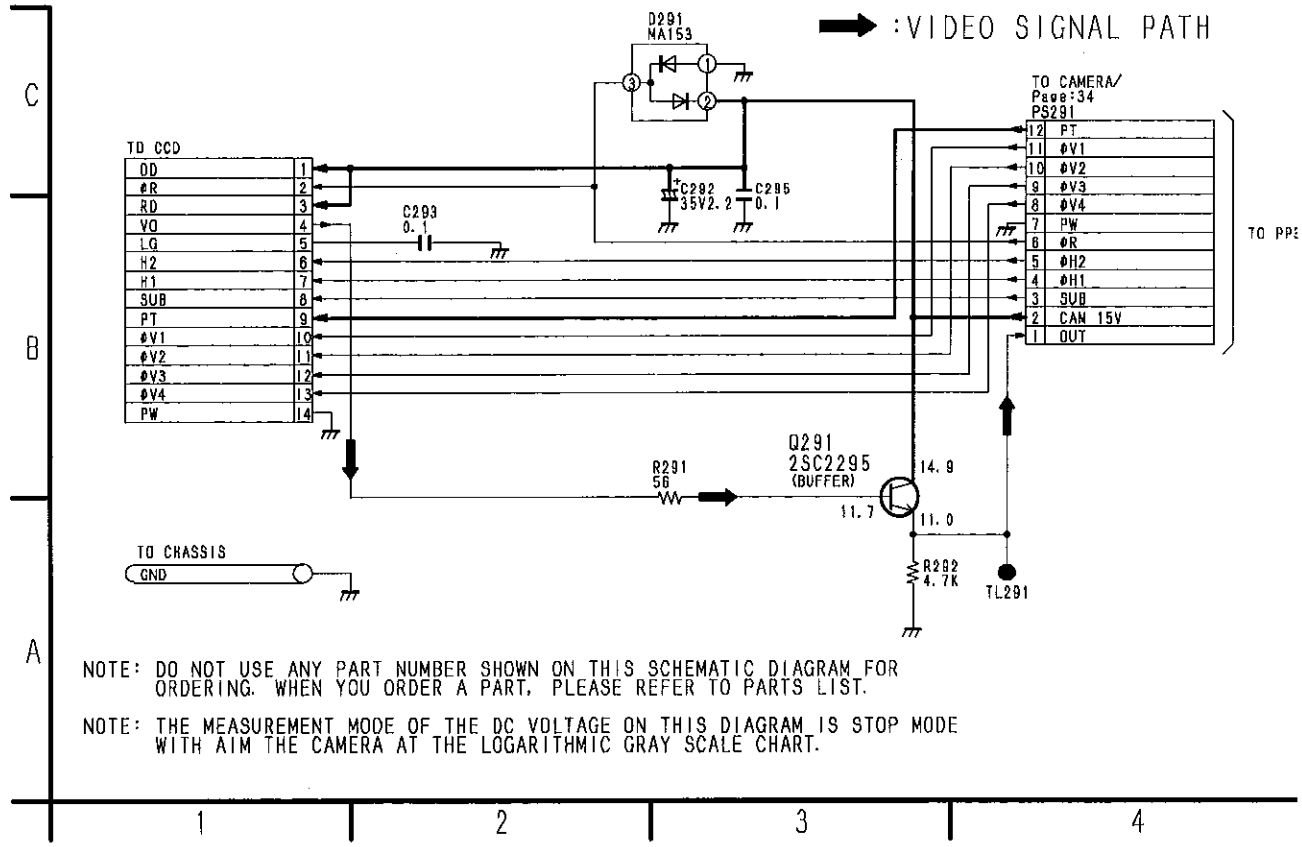
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

6 7 8 9 10 11

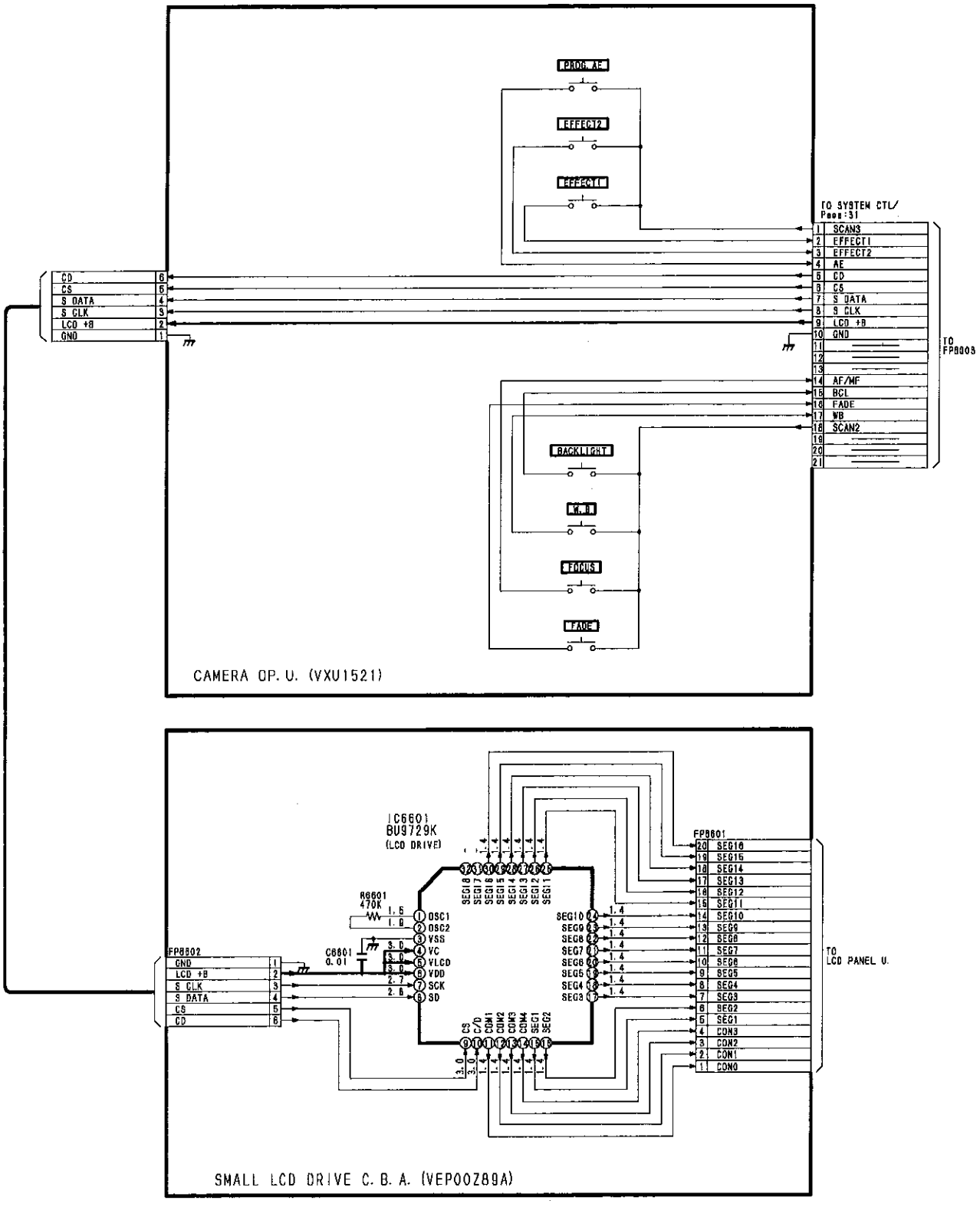
9.9. MIC UNIT SCHEMATIC DIAGRAM



9.10. CCD FLEX. CARD SCHEMATIC DIAGRAM



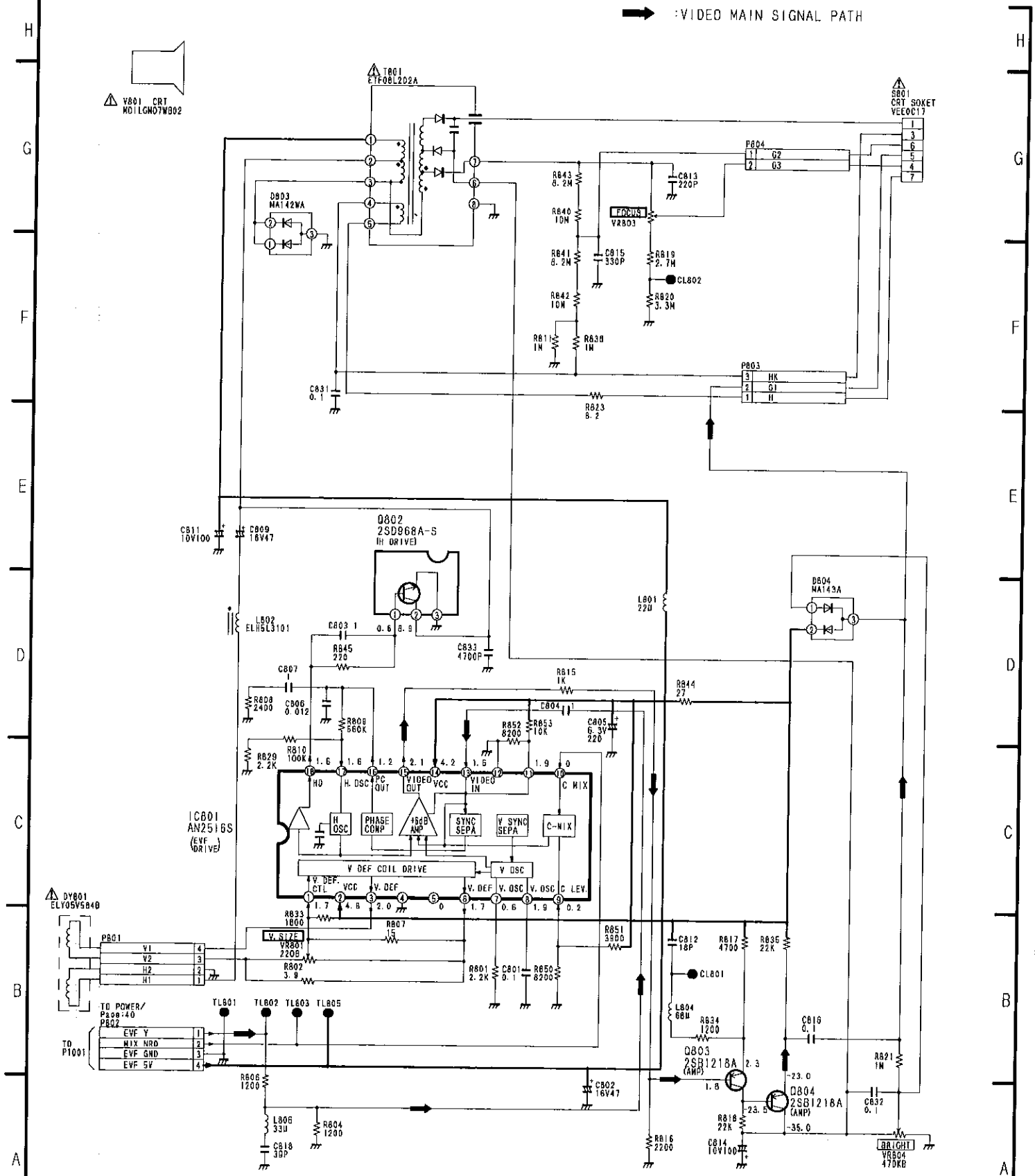
SMALL LCD DRIVE & CAMERA OP.U. SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

9.7. E.V.F. SCHEMATIC DIAGRAM



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

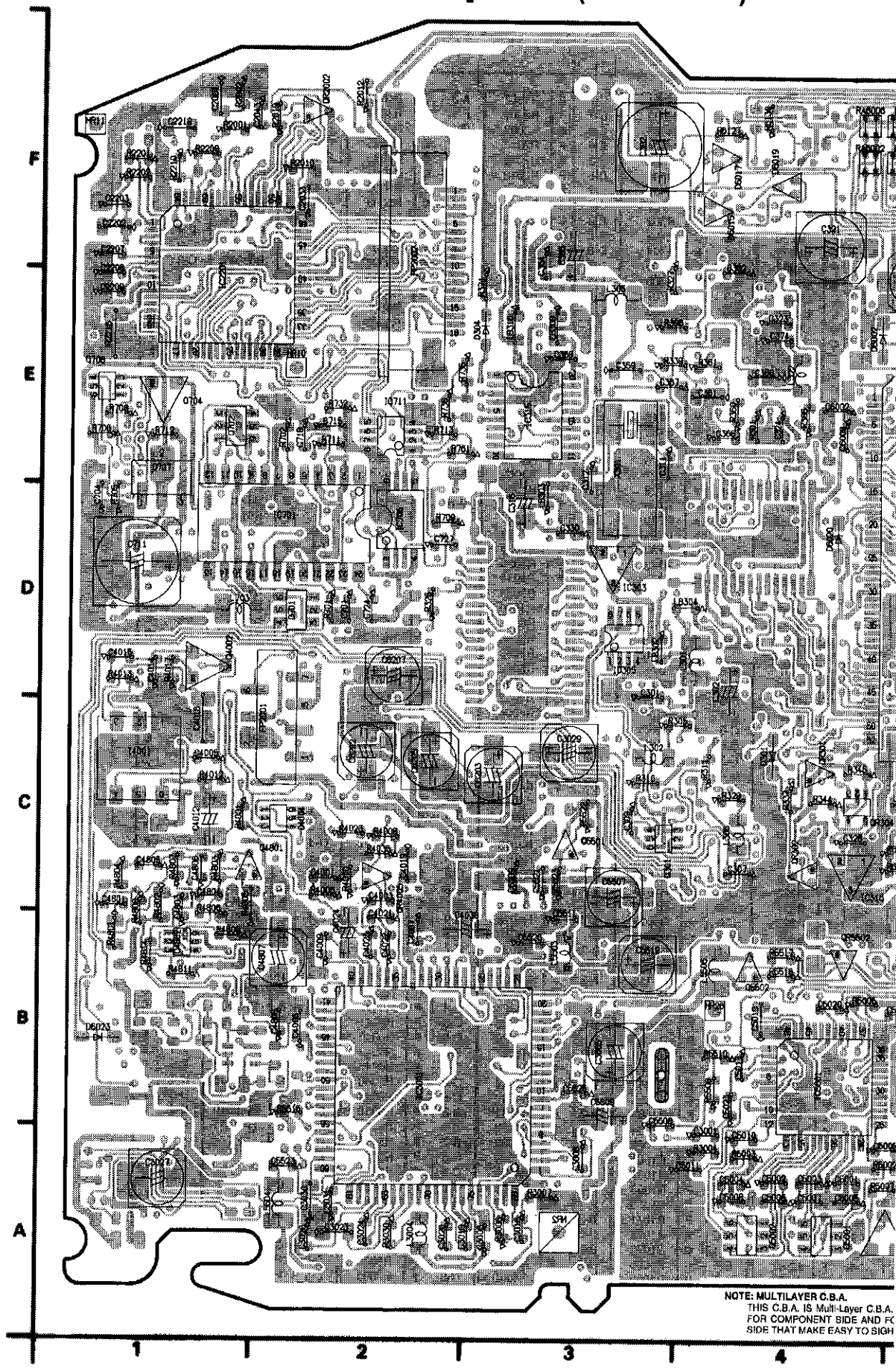
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGREM IS STOP MODE.

ODE

101

10.2. CAMERA/MAIN [COMPONENT SIDE] C.B.A. (VEP23474A)



A.

B-2	C	C6019	D-6	C	R381	D-7	F	R1807	A-3	F	R4809	B-1	C	R6081	E-5	C			
B-8	F	C6020	C-4	F	R382	D-7	F	R2001	F-1	C	R4811	B-1	C	R6082	D-3	F			
B-7	F	C6021	E-4	F	R386	E-4	C	R2002	F-1	C	R4814	B-1	C	R6083	D-4	F			
B-8	F	C6024	E-9	C	R394	E-6	F	R2010	F-2	C	R4815	C-8	F	R6084	C-4	F			
B-8	F	C6025	E-8	C	R396	E-3	C	R2012	F-2	C	R4830	B-8	F	R6085	D-4	F			
C-8	F	C6026	D-4	F	R400	C-6	F	R2019	F-2	C	R5001	B-5	F	R6086	D-4	F			
B-8	F	C6027	C-5	C	R401	E-7	F	R2020	F-7	F	R5002	A-4	C	R6087	E-4	F			
B-8	F	C6028	C-4	F	R701	D-2	C	R2201	F-1	C	R5003	A-4	C	R6088	C-4	F			
C-8	F	C6029	D-4	F	R702	E-2	C	R2202	F-1	C	R5004	B-6	F	R6089	D-4	F			
B-8	F	C6030	E-9	C	R703	E-8	F	R2203	F-8	F	R5005	B-4	C	R6090	E-4	F			
B-8	F	C6031	D-4	F	R704	D-8	F	R2205	F-8	F	R5007	A-4	C	R6092	C-3	F			
B-7	F	C6032	D-4	F	R705	D-1	C	R2206	F-7	F	R5008	A-5	C	R6093	C-3	F			
D-9	C	C6033	E-4	F	R706	E-1	C	R2207	F-7	F	R5500	B-7	F	R6094	D-4	F			
B-3	C	C6034	C-3	F	R707	E-9	F	R2209	F-1	C	R5502	C-6	F	R6095	E-8	C			
D-9	C	C6038	B-5	C	R708	E-1	C	R2210	F-1	C	R5505	B-7	F	R6097	E-5	C			
C-1	C	C6039	C-4	F	R709	D-2	C	R2211	F-9	F	R5508	B-4	C	R6099	E-8	C			
C-1	C	C6040	C-5	F	R711	E-2	C	R2212	F-9	F	R5509	C-7	F	R6100	D-4	F			
C-1	C	C6041	C-6	C	R712	E-1	C	R2213	F-8	F	R5510	B-4	C	R6101	D-5	F			
C-1	C	C6042	C-5	F	R713	E-2	C	R2216	E-1	C	R5513	B-7	F	R6103	E-5	C			
C-1	C	C6044	C-6	C	R716	E-7	F	R3001	B-7	F	R5514	A-7	F	R6104	C-5	F			
B-2	C	C6045	C-4	F	R717	E-8	F	R3004	A-4	C	R5515	B-2	C	R6105	C-4	F			
B-2	C	C6047	C-5	F	R718	E-7	F	R3005	A-7	F	R5516	B-4	C	R6106	C-6	C			
A-4	C	C6048	E-4	F	R722	D-8	F	R3006	A-3	C	R5517	B-4	C	R6107	C-6	C			
A-4	C	C6051	D-3	F	R723	E-7	F	R3007	A-3	C	R5521	A-8	F	R6108	C-4	F			
A-4	C	C6053	F-5	C	R726	E-8	F	R3008	B-4	F	R5522	C-3	C	R6109	C-5	C			
A-4	C	C6054	F-5	C	R727	E-8	F	R3009	A-7	F	R5523	C-3	C	R6110	C-5	C			
A-4	C	C6056	C-4	F	R728	E-8	F	R3010	A-7	F	R5524	C-7	F	R6111	C-5	C			
A-4	C	C6057	C-4	F	R729	E-8	F	R3020	B-6	F	R5526	C-6	F	R6112	C-5	C			
A-4	C	C6058	C-4	F	R730	E-8	F	R3022	A-7	F	R5527	B-7	F	R6113	D-4	F			
A-4	C	C6201	C-8	F	R731	E-8	F	R3023	A-7	F	R6001	E-8	C	R6114	D-5	F			
A-4	C	C6202	C-2	C	R732	E-2	C	R3025	B-7	F	R6002	D-4	F	R6115	E-4	F			
A-4	C	C6203	C-3	C	R733	E-7	F	R3026	B-7	F	R6003	D-4	F	R6116	D-4	F			
A-4	C	C6205	C-2	C	R734	E-7	F	R3030	A-2	C	R6004	D-3	F	R6117	D-5	F			
B-5	F	C6206	C-7	F	R735	E-2	C	R3034	C-6	F	R6005	C-4	F	R6118	D-5	F			
B-6	F	C6207	D-2	C	R736	E-2	C	R3050	B-8	F	R6006	C-4	F	R6119	E-6	C			
B-6	F	C6208	C-7	F	R737	E-7	F	R3057	B-4	F	R6007	D-4	F	R6120	E-5	F			
B-6	F	C6209	C-3	C	R738	E-7	F	R3058	B-4	F	R6010	C-4	F	R6121	E-7	C			
B-4	C	Resistor			R740	E-7	F	R3059	B-4	F	R6011	D-5	F	R6122	D-5	F			
B-5	F	R301	E-4	C	R743	E-7	F	R3060	E-8	C	R6012	E-6	C	R6123	C-3	F			
B-4	C	R303	D-6	F	R745	D-7	F	R4001	C-1	C	R6013	C-5	F	R6124	F-4	F			
B-4	C	R304	D-6	F	R761	E-2	C	R4002	C-8	F	R6014	E-8	C	R6125	F-5	C			
B-5	C	R305	C-3	C	R1001	B-6	C	R4004	C-8	F	R6015	E-8	C	R6126	B-6	C			
A-5	C	R308	C-6	C	R1002	B-3	F	R4005	C-8	F	R6016	E-8	C	R6127	F-4	C			
B-4	C	R309	C-6	F	R1005	B-8	C	R4006	C-2	C	R6017	F-5	F	R6128	B-6	C			
B-6	F	R310	C-3	C	R1006	B-8	C	R4007	C-7	F	R6020	C-4	F	R6129	A-5	C			
B-5	F	R311	C-4	C	R1007	A-2	F	R4008	C-2	C	R6021	D-4	F	R6130	F-4	C			
B-6	F	R312	E-7	F	R1008	A-3	F	R4009	B-8	F	R6022	D-4	F	R6131	F-4	F			
B-7	F	R314	E-7	F	R1009	A-3	F	R4010	C-2	C	R6023	D-3	F	R6132	C-5	F			
A-8	F	R315	E-6	F	R1012	A-3	F	R4011	C-8	F	R6024	D-4	F	R6133	C-4	F			
B-7	F	R316	E-6	F	R1013	A-3	F	R4012	C-1	C	R6025	C-4	F	R6203	C-7	F			
B-7	F	R317	D-7	F	R1014	B-7	C	R4013	D-1	C	R6026	C-4	F	R6204	C-7	F			
B-7	F	R318	E-6	F	R1015	B-7	C	R4014	D-8	F	R6027	F-5	F	R6205	C-7	F			
C-3	C	R319	E-6	F	R1016	B-7	C	R4015	C-8	F	R6029	C-4	F	R6206	D-8	F			
B-3	C	R320	D-5	F	R1017	B-7	C	R4016	C-8	F	R6030	E-8	C	R6207	D-7	F			
B-3	C	R321	E-6	F	R1018	B-7	C	R4017	D-1	C	R6031	E-5	F	R6211	D-4	F			
B-7	F	R323	C-6	F	R1019	B-7	C	R4018	D-9	C	R6032	E-4	F	R6801	B-8	F			
C-3	C	R324	D-7	F	R1020	B-7	C	R4019	C-7	F	R6033	E-4	F	R6802	B-8	F			
B-3	C	R325	D-7	F	R1021	B-3	F	R4020	C-7	F	R6034	E-5	C	Resistor Array					
B-7	F	R326	D-2	C	R1022	B-3	F	R4021	B-7	F	R6035	D-7	C	RA301	E-7	F			
B-7	F	R327	E-3	C	R1023	A-3	F	R4022	C-8	F	R6036	D-4	F	RA704	E-8	F			
B-7	F	R328	E-6	F	R1024	B-7	C	R4023	C-2	C	R6037	D-3	F	RA6001	D-7	C			
B-7	F	R329	C-4	C	R1025	B-7	C	R4024	C-8	F	R6038	D-3	F	RA6002	F-4	C			
B-7	F	R330	E-6	F	R1035	B-2	F	R4025	C-8	F	R6041	D-3	F	RA6003	F-5	C			
B-7	F	R332	E-6	F	R1038	B-3	F	R4026	C-8	F	R6042	E-3	F	RA6004	D-5	F			
B-7	F	R334	D-6	F	R1039	B-7	C	R4027	B-8	F	R6043	D-3	F	RA6006	F-4	C			
C-3	C	R335	E-6	F	R1040	A-3	F	R4028	B-8	F	R6046	C-3	F	RA6007	F-5	C			
C-6	F	R336	C-5	F	R1052	B-3	F	R4029	C-8	F	R6048	E-8	C	RA6008	D-4	F			
A-2	C	R337	C-4	C	R1057	A-3	F	R4030	C-8	F	R6049	F-8	C	RA6009	D-5	F			
B-3	C	R338	C-6	F	R1063	A-7	C	R4031	B-8	F	R6050	E-8	C	RA6010	D-4	F			
B-3	C	R339	E-3	C	R1064	A-1	F	R4032	B-7	F	R6052	D-4	F	RA6011	F-6	C			
B-7	F	R340	C-6	F	R1065	B-1	F	R4033	B-7	F	R6053	D-4	F						
B-8	F	R344	C-4	C	R1066	A-7	C	R4034	C-8	F	R6056	E-8	C						
A-8	F	R345	C-4	C	R1067	A-7	C	R4035	C-2	C	R6058	C-5	C						
B-7	F	R346	C-4	F	R1068	A-7	C	R4036	C-8	F	R6059	C-5	C						
C-4	F	R347	C-7	F	R1069	A-7	C	R4037	B-7	F	R6060	D-4	F						
E-4	C	R358	D-7	F	R1071	B-3	F	R4038	C-8	F	R6061	C-4	F						
E-9	C	R359	C-6	F	R1072	B-3	F	R4040	C-8	F	R6062	E-5	C						
E-8	C	R360	E-4	C	R1073	B-3	F	R4041	B-7	F	R6063	E-7	C						
C-4	F	R361	E-4	C	R1085	B-3	F	R4042	B-7	F	R6064	D-4	F						
D-4	F	R363	F-6	F	R1086	B-7	C	R4050	C-8	F	R6065	D-4	F						
E-4	C	R364	E-6	F	R1601	B-8	C	R4060	C-7	F	R6066	D-4	F						
C-6	C	R365	E-6	F	R1602	C-1	F	R4801	B-1	C	R6067	E-8	C						
C-3	F	R370	D-7	F	R1603	C-8	C	R4802	C-1	C	R6068	E-8	C						
C-4	F	R371	E-3	C	R1699	C-1	F	R4803	C-1	C	R6069	E-7	C						
C-7	C	R373	F-6	F	R1703	E-7	C	R4804	C-1	C	R6070	E-4	F						
D-7	C	R376	C-6	F	R1726	E-3	F	R4805	C-1	C	R6075	E-7	C						
C-3	F	R377	D-8	F	R1727	E-3	F	R4806	C-1	C	R6078	D-3	F						
C-4	F	R379	D-7	F	R1805	B-4	F	R4807	C-1	C	R6079	F-4	F						
F-4	F	R380	D-7	F	R1806	B-3	F	R4808	C-1	C	R6080	C-7	C						

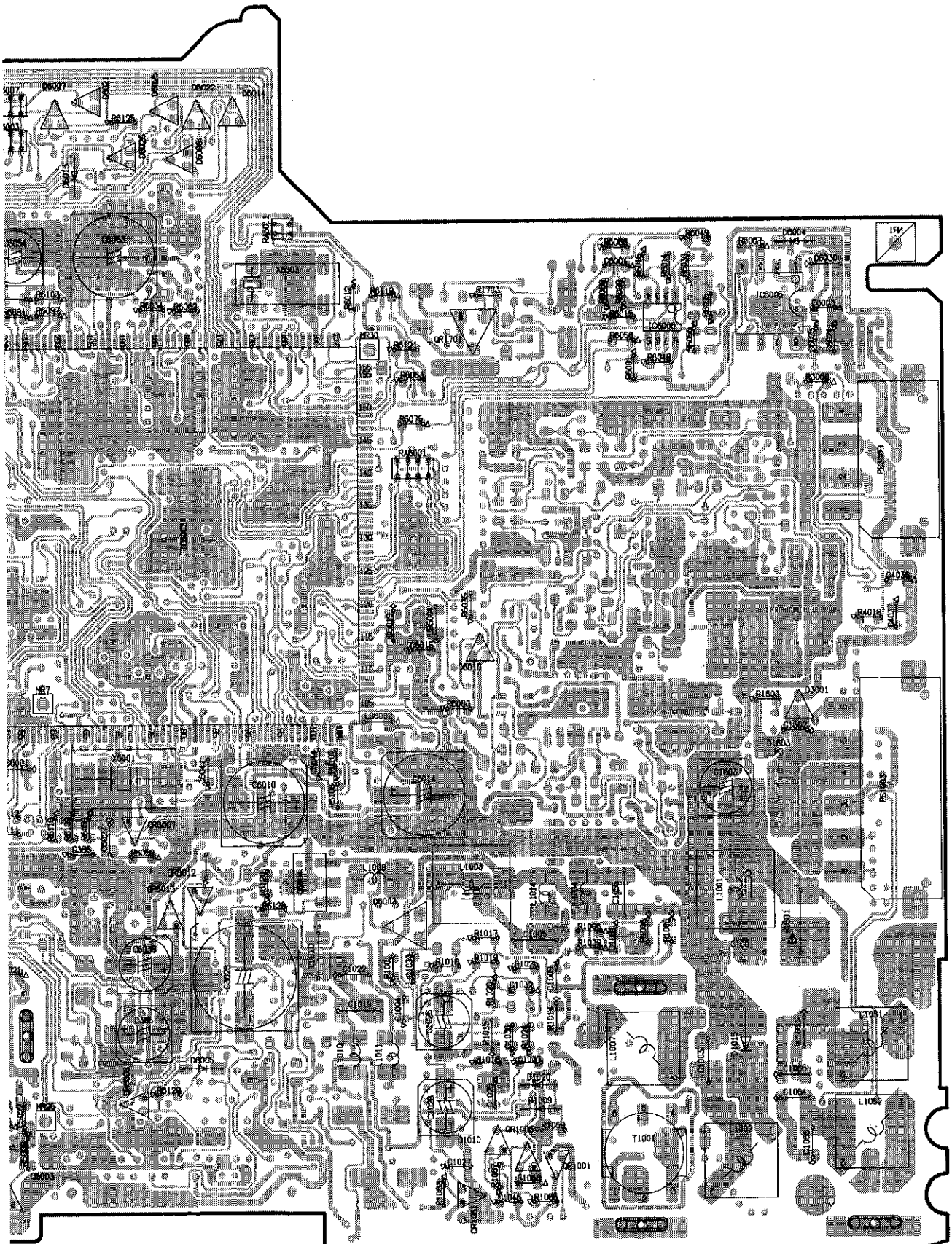
10 CIRCUIT BOARD ASSEMBLIES

10.1. CAMERA/MAIN C.B.A. ADDRESS INFORMATIONS

Camera/Main C.B.

Integrated Circuit			QR6004	D-5	F	CKA12	F-5	F	CKY13	B-5	F	LB1602	C-2	F	C1028	A-7	C	C4024
IC301	D-6	F	QR6005	D-3	F	CKA14	F-4	F	CKY14	B-5	F	LB6001	C-5	C	C1030	B-7	C	C4025
IC302	E-5	F	QR6007	C-5	C	CKA16	F-4	F	CKY15	B-4	F	LB6002	C-6	C	C1032	B-7	C	C4026
IC303	D-3	C	QR6008	A-5	C	CKA20	F-4	F	CKY18	A-5	F	LB6003	D-3	F	C1033	B-3	F	C4027
IC304	D-5	F	QR6009	C-3	F	CKA24	F-4	F	CKY19	B-4	F	LB6004	D-7	C	C1034	B-3	F	C4028
IC305	D-3	C	QR6012	B-5	C	CKB3	C-1	F	CKY20	B-4	F	Capacitor			C1035	A-3	F	C4029
IC313	C-6	F	QR6013	B-5	C	CKB6	C-1	F	CKY21	A-4	F	C301	D-3	C	C1036	B-7	C	C4030
IC314	E-6	F	QR6014	C-4	F	CKC1	F-9	F	CKY22	A-4	F	C302	D-4	C	C1037	B-7	C	C4031
IC315	E-3	C	QR6050	D-5	F	CKC2	F-9	F	CKY23	A-4	F	C303	D-7	F	C1041	C-1	F	C4032
IC316	C-4	C	QR6801	B-8	F	CKC3	F-8	F	CKY27	A-4	F	C304	C-6	F	C1046	A-7	C	C4034
IC701	D-2	C	Diode			CKC4	E-8	F	CKY30	A-5	F	C305	C-6	F	C1051	B-2	F	C4035
IC702	D-8	F	D301	C-4	C	CKC5	E-8	F	CKY31	B-4	F	C306	E-5	F	C1055	B-7	F	C4036
IC706	D-2	C	D304	E-3	C	CKC6	D-8	F	CKY32	B-4	F	C307	C-4	C	C1057	B-2	F	C4037
IC711	E-2	C	D1006	A-2	F	CKC7	D-8	F	CKY35	B-5	F	C308	C-6	F	C1063	B-8	C	C4038
IC1001	B-3	F	D1007	A-2	F	CKD2	E-3	F	CKY36	B-5	F	C309	C-3	C	C1064	A-8	C	C4039
IC2201	E-1	C	D1009	A-7	C	CKD4	E-2	F	CKY37	B-5	F	C310	E-6	F	C1065	B-8	C	C4801
IC2202	E-8	F	D1015	B-8	C	CKE1	A-5	F	CKW2	C-9	F	C311	E-3	C	C1066	A-8	C	C4803
IC2203	E-8	F	D1020	A-7	C	CKE5	A-5	F	CKW3	C-9	F	C312	E-3	C	C1071	B-1	F	C4804
IC3001	B-2	C	D1601	C-1	F	CKE6	A-6	F	CKW4	D-8	F	C313	D-6	F	C1080	B-3	F	C4805
IC5001	B-4	C	D1602	C-1	F	CKE7	A-6	F	CKW6	D-8	F	C314	E-6	F	C1081	B-7	C	C4806
IC5501	B-7	F	D1603	C-8	C	CKE9	A-6	F	CKW7	D-8	F	C315	C-6	F	C1602	C-8	C	C4807
IC6002	E-4	F	D1604	C-1	F	CKE10	A-6	F	TL1001	B-2	F	C316	D-3	C	C1603	C-8	C	C4808
IC6003	D-5	C	D3001	A-8	C	CKE11	A-6	F	TL1002	B-1	F	C317	C-5	F	C2001	F-1	C	C5001
IC6004	C-3	F	D3004	B-4	F	CKE12	A-6	F	Connector			C318	D-8	F	C2009	F-9	F	C5002
IC6005	E-8	C	D4001	A-6	F	CKF1	F-6	F	FP701	E-9	F	C321	F-4	C	C2020	F-8	F	C5003
IC6006	E-8	C	D5501	C-7	F	CKF5	F-5	F	FP2001	C-2	C	C322	D-6	F	C2033	F-2	C	C5004
IC6007	D-3	F	D6001	E-4	F	CKF6	F-6	F	FP2002	F-2	C	C323	E-4	C	C2043	F-2	C	C5005
IC6008	E-4	F	D6002	E-4	C	CKF9	F-6	F	FP4001	D-9	F	C324	E-4	C	C2202	F-1	C	C5006
IC6009	D-3	F	D6003	B-6	C	CKF11	F-5	F	FP4002	B-9	F	C327	D-5	F	C2203	F-1	C	C5007
IC6010	C-3	F	D6004	F-8	C	CKF13	F-5	F	FP5001	A-6	F	C328	C-4	C	C2207	F-1	C	C5008
IC6011	C-3	F	D6005	B-5	C	CKF15	F-6	F	FP6001	E-1	F	C330	D-3	C	C2208	E-1	C	C5009
IC6201	C-8	F	D6006	E-4	F	CKF18	F-5	F	FP6002	E-2	F	C331	E-6	F	C2209	E-1	C	C5010
IC6202	C-7	F	D6007	E-4	F	CKG1	E-7	F	FP6003	F-6	F	C332	E-7	F	C2210	F-9	F	C5011
Transistor			D6009	F-5	C	CKG2	E-7	F	FP6004	F-8	F	C333	C-6	F	C2212	F-8	F	C5012
Q201	E-6	F	D6010	D-7	C	CKG3	E-7	F	FP6006	F-4	F	C335	D-5	F	C2213	F-8	F	C5013
Q301	C-3	C	D6013	F-5	C	CKG4	E-7	F	P1001	E-3	F	C338	E-6	F	C2214	F-8	F	C5014
Q701	D-2	C	D6014	F-6	C	CKG5	E-7	F	PP301	E-7	F	C347	E-6	F	C2216	F-8	F	C5016
Q702	E-1	C	D6015	F-4	C	CKG6	E-7	F	PP3001	A-4	F	C358	E-4	C	C2217	F-9	F	C5017
Q703	E-8	F	D6016	C-4	F	CKG7	E-7	F	PS1003	C-9	C	C359	E-3	C	C2219	F-1	C	C5018
Q704	E-1	C	D6017	F-4	C	CKG8	E-7	F	PS3009	D-9	C	C360	E-6	F	C2220	F-9	F	C5019
Q706	D-8	F	D6019	F-4	C	CKG9	E-7	F	Crystal Oscillator			C361	E-4	C	C2221	F-9	F	C5020
Q707	E-1	C	D6020	D-4	C	CKG10	E-7	F	X301	E-3	C	C362	F-4	C	C2222	F-9	F	C5021
Q708	E-1	C	D6021	F-5	C	CKG11	E-7	F	X6001	C-5	C	C364	F-3	C	C2223	E-9	F	C5022
Q1001	B-2	F	D6022	F-6	C	CKG12	E-7	F	X6003	E-6	C	C365	F-3	C	C2224	F-8	F	C5023
Q1003	B-2	F	D6023	B-1	C	CKJ1	D-1	F	Coil			C366	E-4	C	C2225	F-8	F	C5024
Q1004	A-2	F	D6025	F-5	C	CKJ4	E-1	F	L301	D-4	C	C367	E-3	C	C2226	F-8	F	C5025
Q1010	A-7	C	D6026	F-5	C	CKK2	F-7	F	L302	C-3	C	C368	F-6	F	C2227	E-8	F	C5041
Q1061	B-1	F	D6027	F-5	C	CKK3	F-7	F	L303	D-7	F	C369	E-3	C	C2233	E-9	F	C5501
Q1062	A-1	F	D6201	D-4	F	CKK4	F-7	F	L304	E-6	F	C371	E-6	F	C3001	A-4	C	C5502
Q3001	B-4	F	Transformer			CKK5	F-7	F	L305	E-3	C	C372	E-6	F	C3004	B-8	F	C5504
Q3002	B-4	F	T1001	A-8	C	CKK6	F-7	F	L306	C-4	C	C374	E-4	C	C3005	B-3	C	C5505
Q3010	B-4	F	T4001	C-1	C	CKK7	F-7	F	L316	E-6	F	C375	E-7	F	C3006	A-3	C	C5506
Q4001	C-8	F	Test Point			CKK8	F-7	F	L322	E-4	C	C376	E-7	F	C3008	A-3	C	C5507
Q4002	D-1	C	CL301	D-5	F	CKK10	F-7	F	L703	D-1	C	C377	E-7	F	C3009	B-7	F	C5508
Q4003	C-8	F	CL302	D-5	F	CKK12	F-7	F	L1001	B-8	C	C382	F-3	C	C3010	C-1	F	C5509
Q4004	C-2	C	CL307	D-7	F	CKK13	E-7	F	L1002	A-8	C	C383	C-6	F	C3016	A-3	C	C5510
Q4006	B-8	F	CL702	D-8	F	CKK15	E-7	F	L1003	C-7	C	C385	B-5	C	C3017	A-7	F	C5511
Q4007	C-8	F	CL1001	C-3	F	CKK17	E-7	F	L1004	B-7	C	C386	C-5	C	C3018	A-7	F	C5512
Q4009	C-8	F	CL1002	E-3	F	CKK18	E-7	F	L1006	B-3	F	C701	D-2	C	C3019	A-3	C	C5513
Q4014	C-7	F	CL1012	B-4	F	CKN2	F-1	F	L1007	B-7	C	C702	E-7	F	C3020	A-2	C	C5514
Q4801	C-2	C	CL3003	B-6	F	CKN3	F-1	F	L1008	C-6	C	C703	E-8	F	C3022	A-7	F	C5515
Q4802	B-1	C	CL3004	B-6	F	CKN6	F-1	F	L1010	B-6	C	C704	D-1	C	C3023	A-2	C	C5516
Q5001	A-4	C	CL3007	B-7	F	CKN7	F-1	F	L1011	B-6	C	C705	E-8	F	C3024	A-2	C	C5518
Q5002	A-4	C	CL3008	B-7	F	CKN8	E-1	F	L1014	B-7	C	C711	D-1	C	C3026	A-2	C	C5519
Q5003	A-5	C	CL4002	D-9	F	CKN9	F-1	F	L1015	B-3	F	C713	E-8	F	C3027	A-1	C	C5520
Q5501	C-3	C	CL4004	C-8	F	CKN15	E-1	F	L1061	B-9	C	C715	E-2	C	C3028	B-6	C	C5521
Q5502	B-4	C	CL5501	B-7	F	CKN16	F-1	F	L1062	A-9	C	C716	D-8	F	C3029	C-3	C	C5522
Q5504	C-7	F	CL6001	E-5	F	CKP1	D-9	F	L3002	B-6	F	C718	E-2	C	C3030	A-2	C	C5523
Q6001	C-4	F	CL6002	E-5	F	CKP2	D-9	F	L3003	A-8	F	C719	E-7	F	C3031	A-2	C	C5525
Q6002	D-4	F	CL6003	E-5	F	CKP3	D-9	F	L3004	A-2	C	C721	D-8	F	C3033	B-4	F	C5526
Q6003	D-3	F	CL6005	D-3	F	CKP4	D-9	F	L4005	C-9	F	C724	D-2	C	C3035	B-8	F	C5527
Q6004	B-6	C	CL6006	C-4	F	CKP5	D-9	F	L5001	B-6	F	C727	D-2	C	C4001	C-2	C	C5530
Q6006	D-3	F	CL6007	D-3	F	CKP6	E-7	F	L5002	B-6	F	C1001	B-8	C	C4002	C-7	F	C5531
Transistor & Resistor			CL6011	B-1	F	CKP7	E-9	F	L5003	B-5	F	C1003	B-8	C	C4003	C-2	C	C5534
QR301	C-4	C	CL6012	E-4	F	CKP8	E-9	F	L5004	B-6	F	C1004	B-6	C	C4004	B-8	F	C6001
QR302	C-4	C	CL6013	F-4	F	CKP10	E-9	F	L5501	B-6	F	C1005	B-7	C	C4005	C-1	C	C6002
QR304	C-4	C	CL6014	E-3	F	CKP11	E-9	F	L5502	B-7	F	C1008	B-2	F	C4006	B-2	C	C6003
QR701	E-8	F	CL6015	C-1	F	CKP12	E-9	F	L5503	B-3	C	C1009	B-7	C	C4007	B-2	C	C6004
QR1001	A-7	C	CL6016	C-5	F	CKP13	E-9	F	L5504	A-2	C	C1010	B-6	C	C4009	B-2	C	C6006
QR1005	A-7	C	CL6017	E-4	F	CKP14	E-9	F	L5506	B-4	C	C1012	A-2	F	C4012	C-1	C	C6007
QR1061	A-7	C	CL6018	C-7	F	CKP15	E-9	F	L5507	C-6	F	C1014	A-3	F	C4014	D-1	C	C6009
QR1701	E-7	C	CL6206	F-8	F	CKP17	E-9	F	L6201	D-8	F	C1017	A-2	F	C4015	D-1	C	C6010
QR2002	F-2	C	CL6208	F-9	F	CKP18	E-9	F	LB302	D-3	C	C1019	B-6	C	C4016	C-1	C	C6011
QR4003	C-8	F	CKA2	F-5	F	CKY4	A-5	F	LB303	D-3	C	C1020	A-2	F	C4017	D-8	F	C6012
QR4004	C-9	F	CKA4	F-5	F	CKY5	B-5	F	LB304	D-4	C	C1022	B-6	C	C4019	C-2	C	C6014
QR4005	C-2	C	CKA6	F-5	F	CKY8	B-4	F	LB309	E-3	C	C1024	A-3	F	C4020	C-8	F	C6015
QR4008	C-8	F	CKA8	F-5	F	CKY9	A-4	F	LB310	E-3	C	C1025	A-7	C	C4021	B-2	C	C6016
QR5502	B-4	C	CKA10	F-4	F	CKY11	A-4	F	LB312	E-5	F	C1026	B-7	C	C4022	B-2	C	C6017
QR6001	E-4	F	CKA11	F-5	F	CKY12	A-5	F	LB1601	B-1	F	C1027	A-7	C	C4023	B-2	C	C6018

ADDRESS INFORMATION **C**.....COMPONENT SIDE **F**.....FOIL SIDE

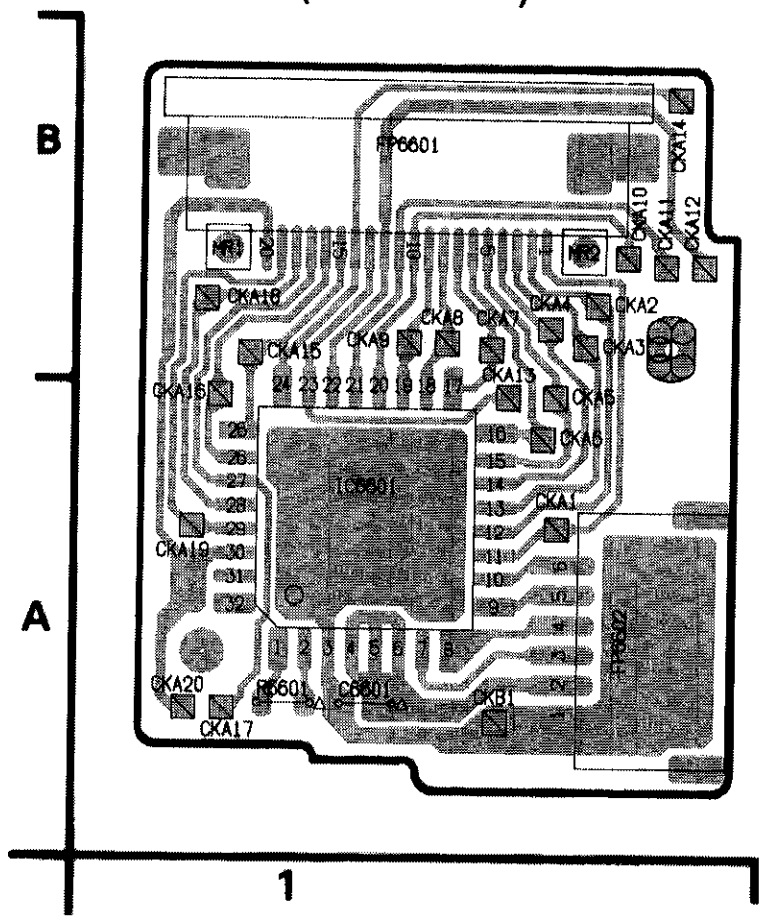


THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN
NL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH
T THE COMPONENT LAYOUT.

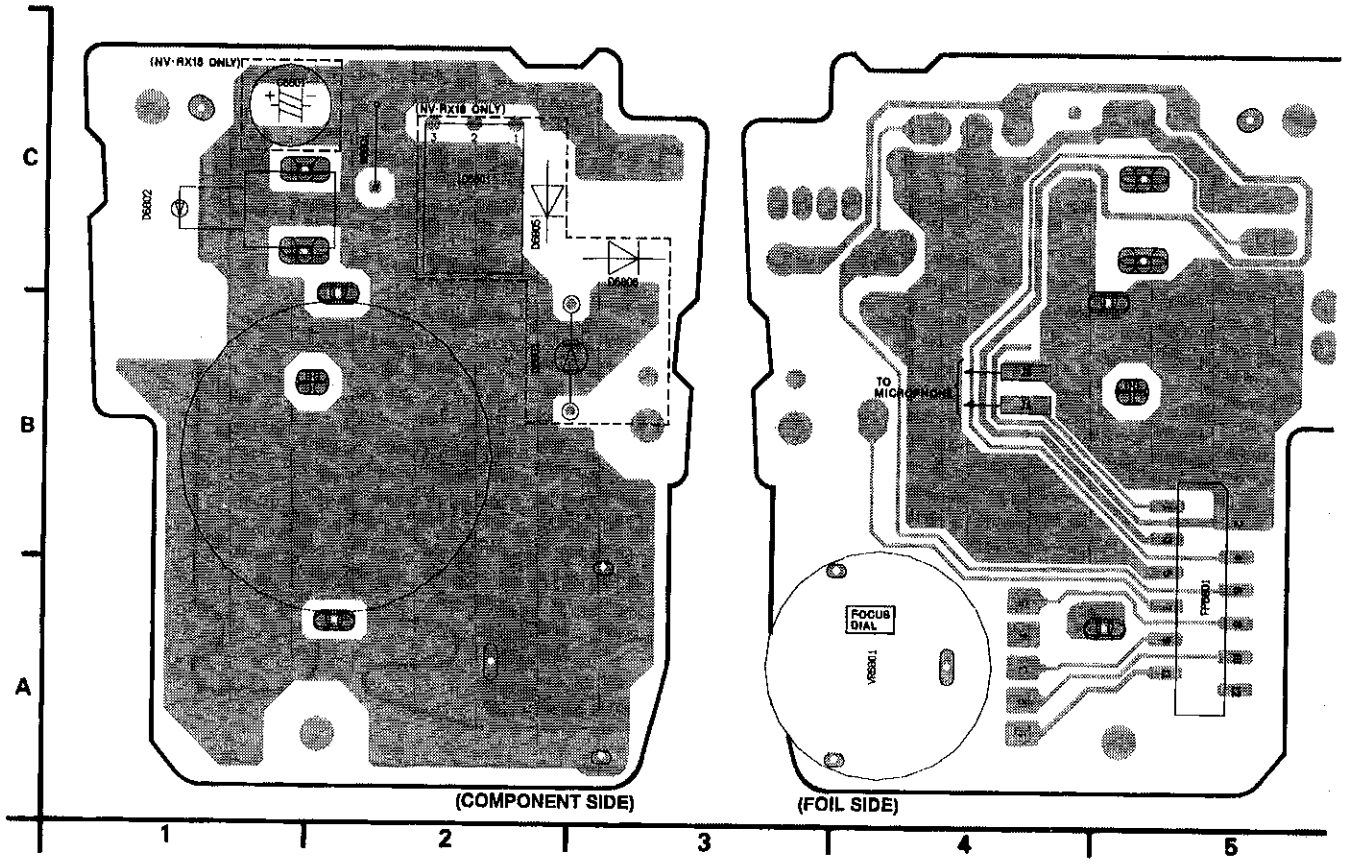
(COMPONENT SIDE)

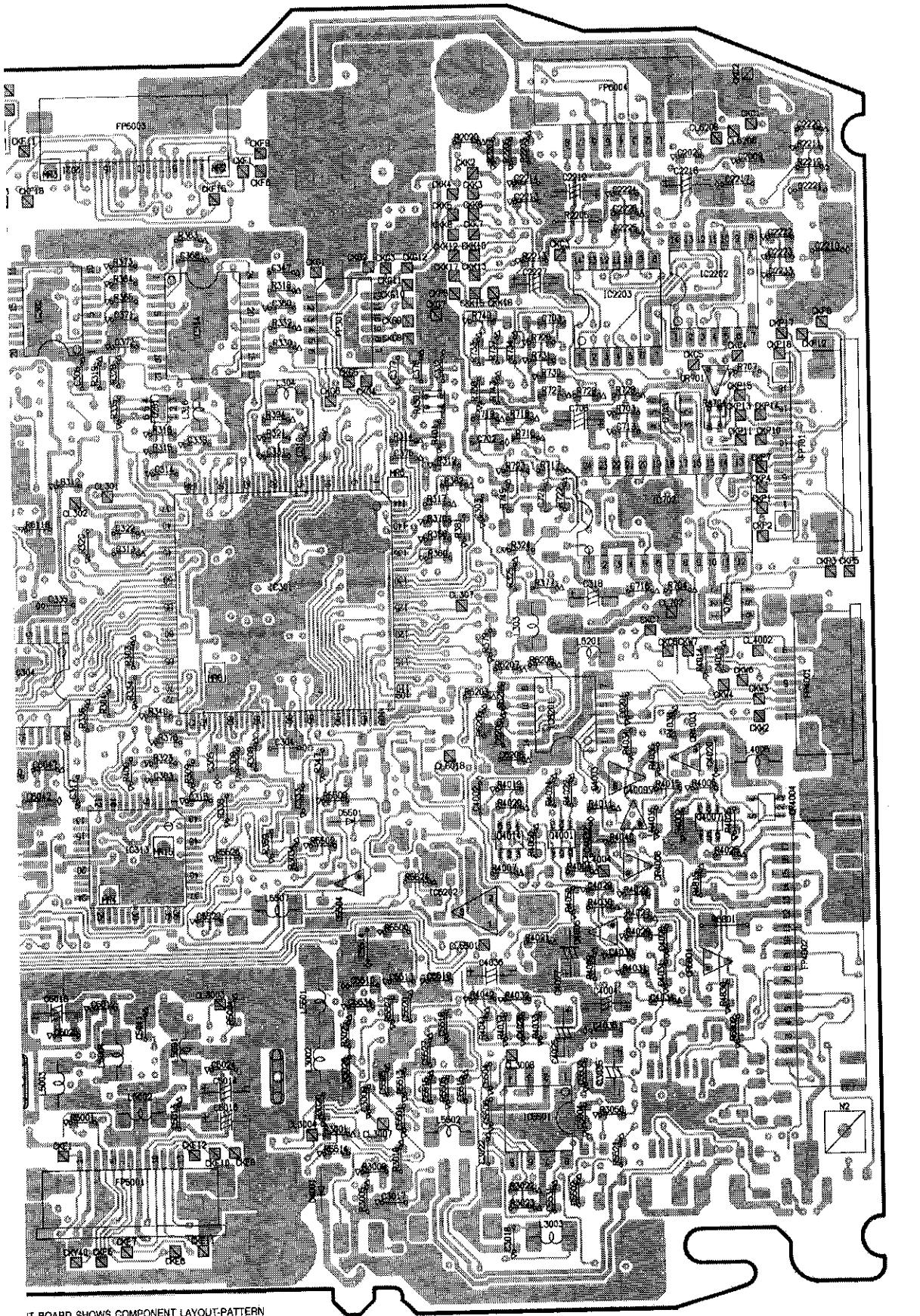
5 6 7 8 9

10.4. SMALL LCD DRIVE C.B.A. (VEP00Z89A)



10.5. MIC UNIT (VEK8577:NV-RX14, NV-RX17) (VEK8578:NV-RX18)

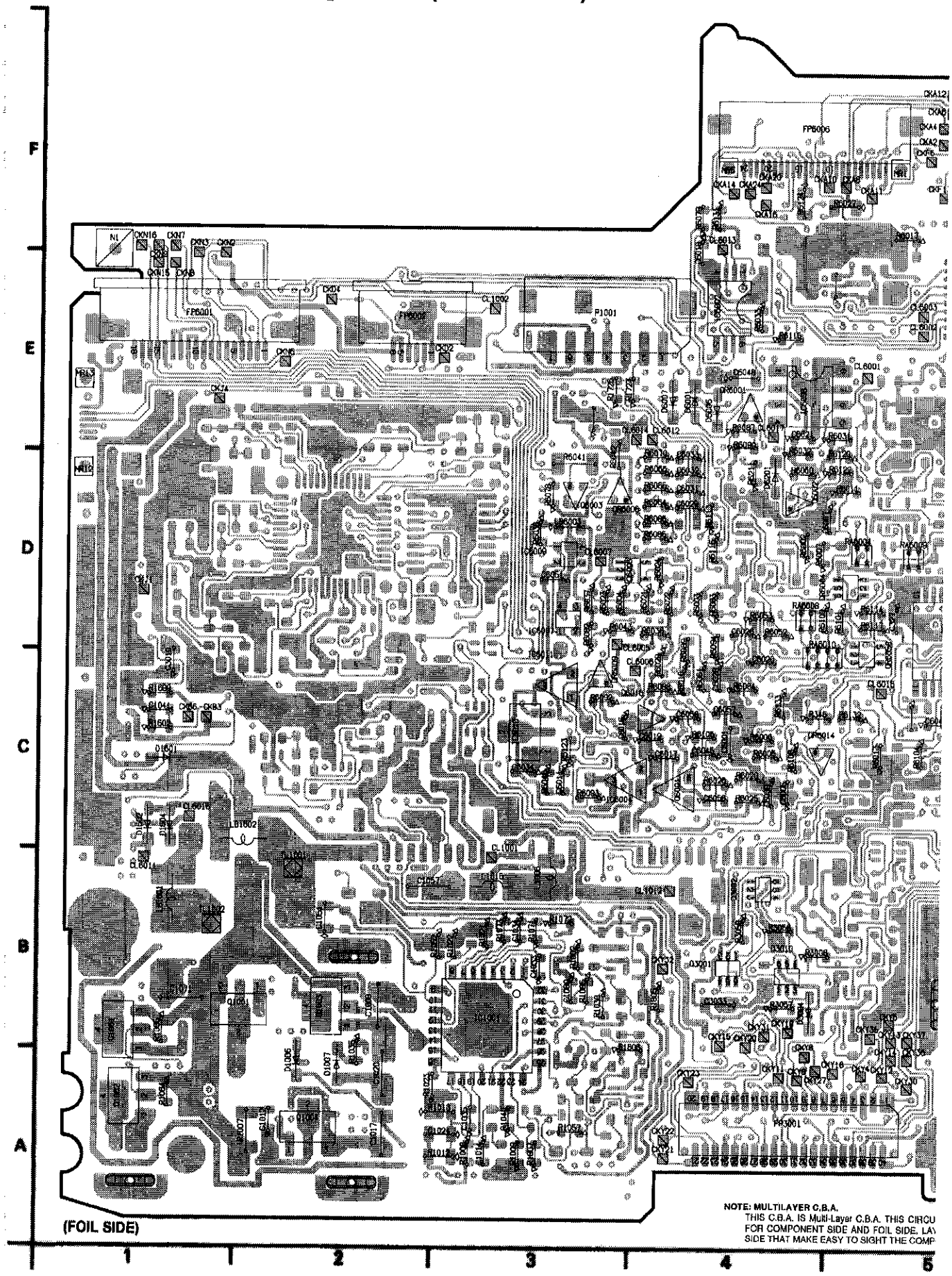




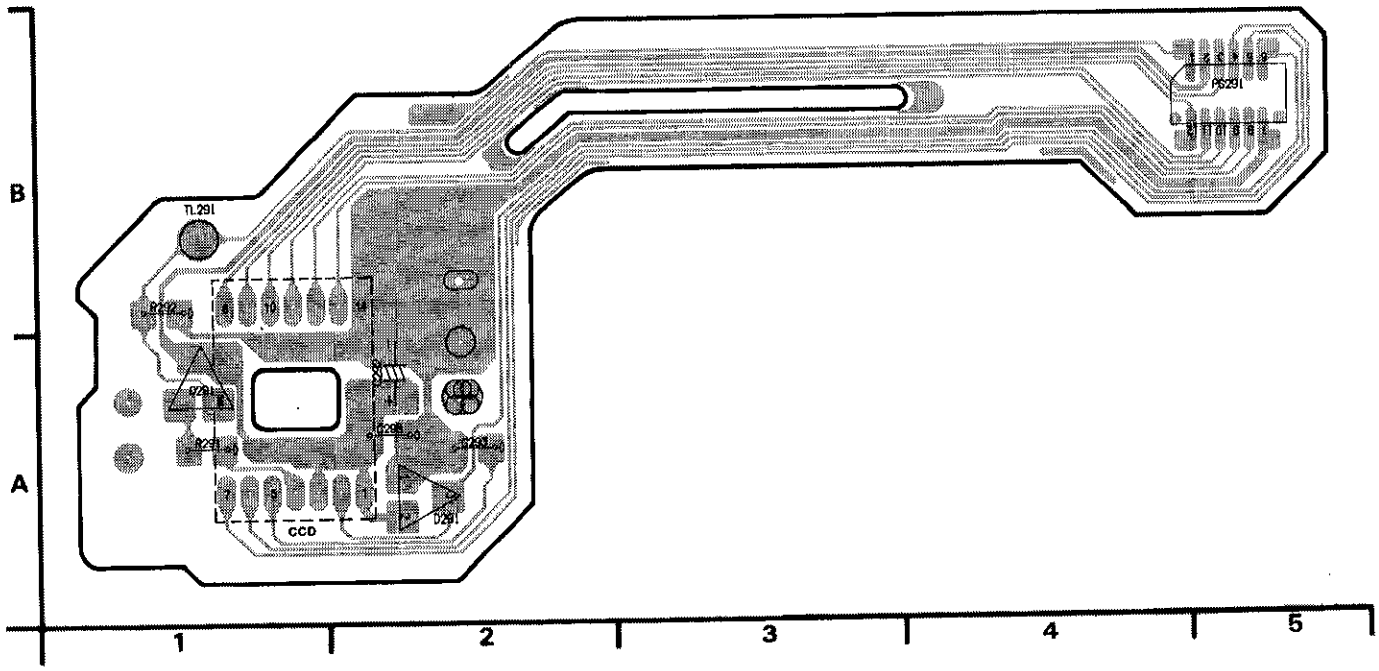
IT BOARD SHOWS COMPONENT LAYOUT-PATTERN
'OUT-PATTERNS ARE SINGLE PATTERN FOR EACH
ONENT LAYOUT.

6 7 8 9

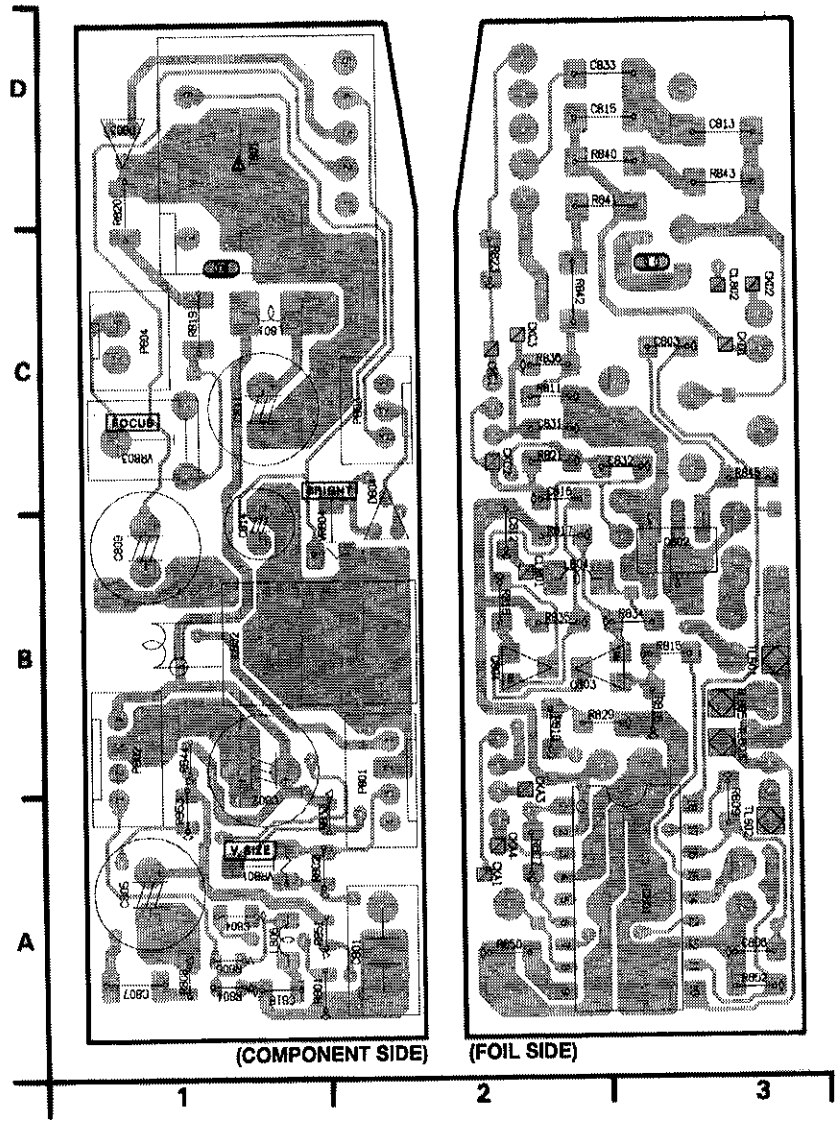
10.3. CAMERA/MAIN [FOIL SIDE] C.B.A. (VEP23474A)



10.6. CCD FLEX. CARD C.B.A. (VEP22276B)

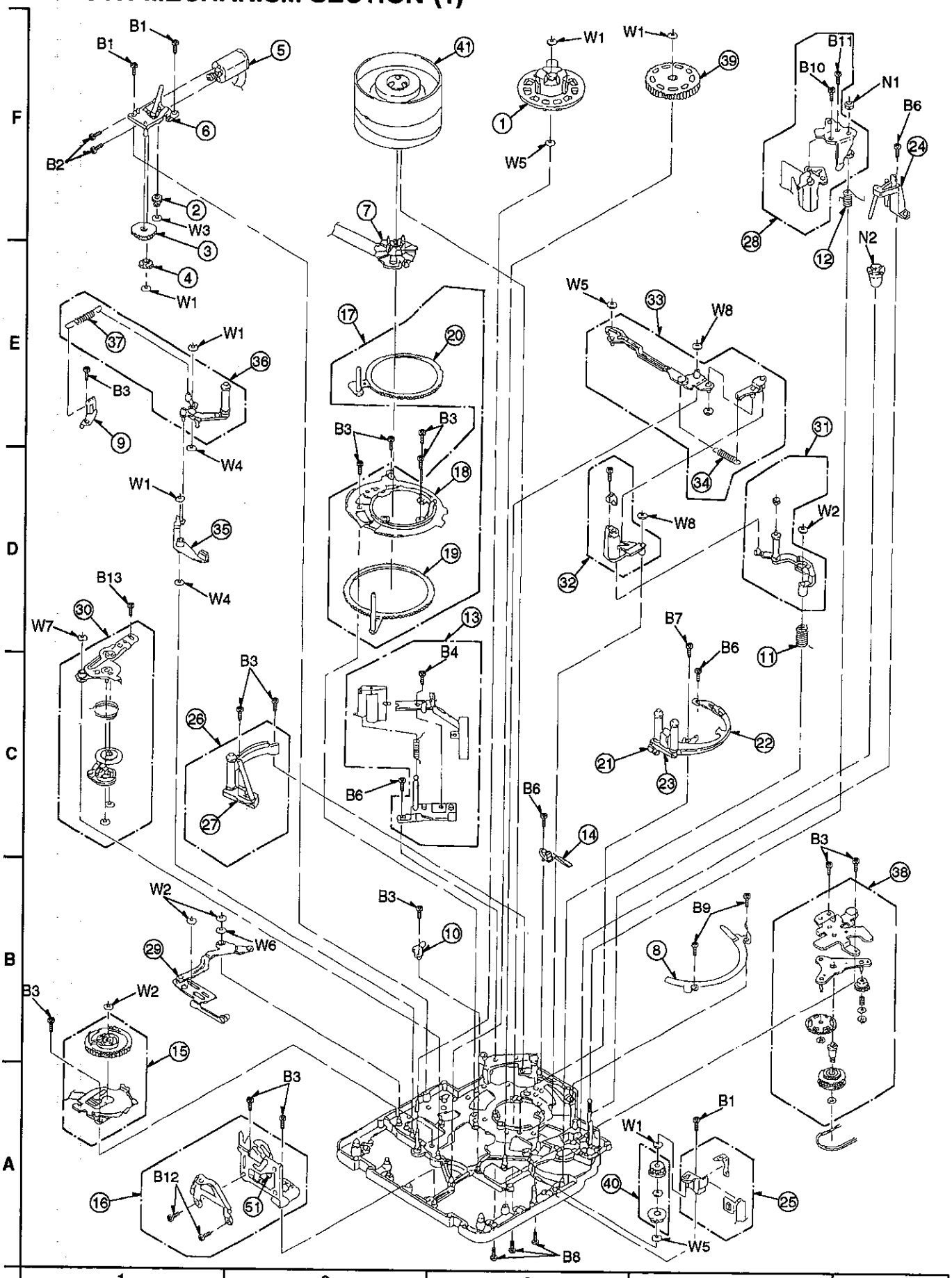


10.7. E.V.F. C.B.A. (VEP28259A)



11 EXPLODED VIEWS & PARTS LIST

11.1. VTR MECHANISM SECTION (1)



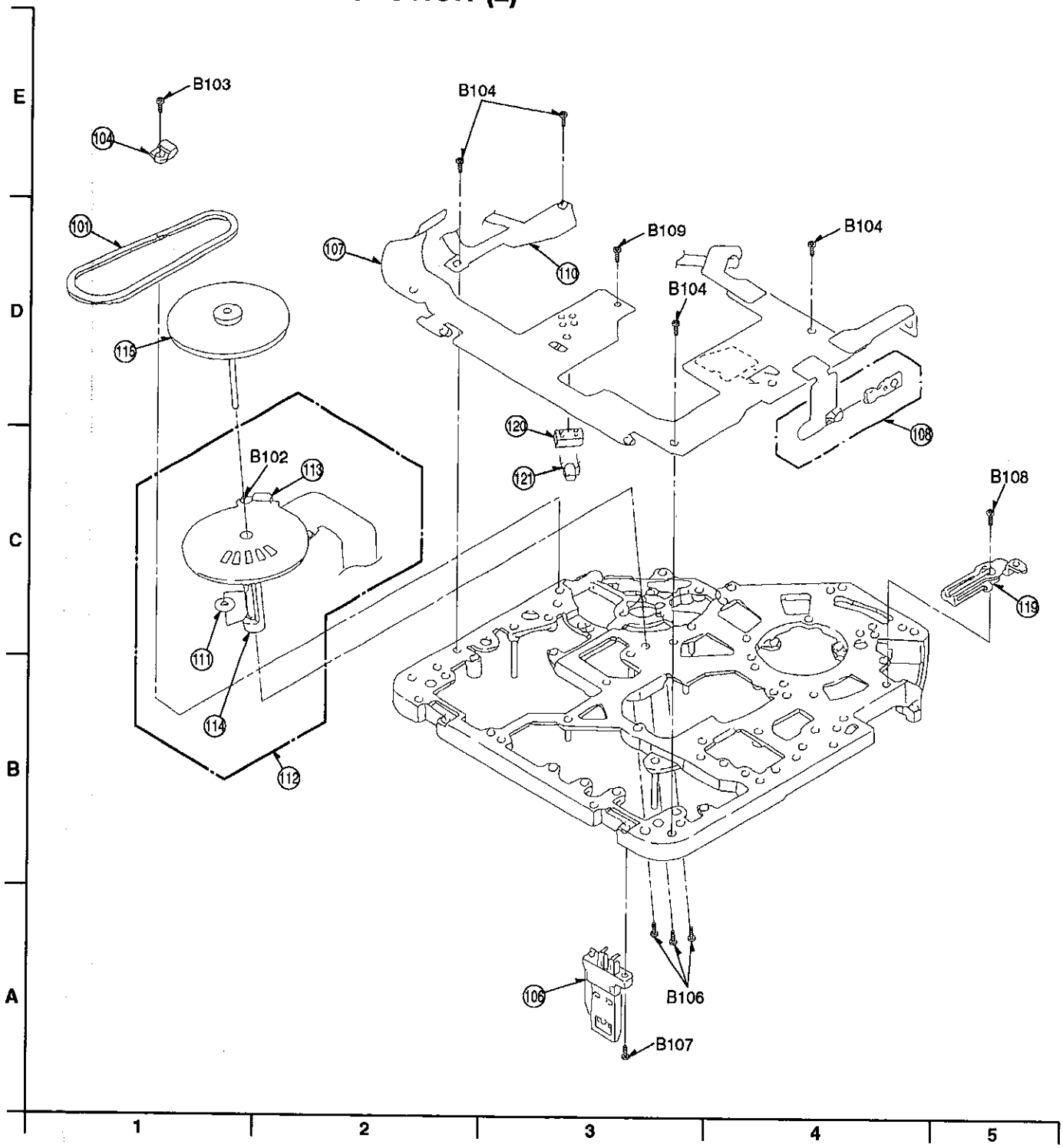
11.2. VTR MECHANISM SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1 (1)	VDR0226	REEL BASE (S)	1	
2 (1)	VDG0821	BRAKE GEAR (A)	1	
3 (1)	VDG0823	BRAKE GEAR (C)	1	
4 (1)	VDG0822	BRAKE GEAR (B)	1	
5 (1)	VEM0417	LOADING MOTOR (1) U.	1	
6 (1)	VXA4527	MOTOR HOLDER U.	1	
7 (1)	VEK8368	RT CONNECTOR U.	1	
8 (1)	VMA8502	T-RING SLIDER	1	
9 (1)	VMA8505	TEN-REG.SPRING HOOK	1	
10 (1)	VMA8532	PENDULUM ARM HOLDER	1	
11 (1)	VMB2362	T3 ARM SPRING	1	
12 (1)	VMB2365	AC HEAD SPRING	1	
13 (1)	VXA5306	S-GUIDE STAND U.	1	
14 (1)	VMD1851	T-BOAT GUIDE	1	
15 (1)	VSR0096	MODE SWITCH U.	1	
16 (1)	VXA6118	LOCK BASE U.	1	
17 (1)	VXA4517	LOADING RING U.	1	
18 (1)	VMD1824	RING GUIDE	1	
19 (1)	VXA4518	T-RING U.	1	
20 (1)	VXA4519	S-RING U.	1	
21 (1)	VEK5549	LED U.	1	
22 (1)	VMD1828	T-RAIL	1	
23 (1)	VXA5260	T-BOAT U.	1	
24 (1)	VXA4528	T4 POST U.	1	
25 (1)	VXA6117	T-REEL SENSOR U.	1	
26 (1)	VXA5153	S-RAIL U.	1	
27 (1)	VXA5124	S-BOAT U.	1	
28 (1)	VXA5201	AC HEAD U.	1	
29 (1)	VXL2393	EJECT LEVER (1) U.	1	
30 (1)	VXL2401	SWING ARM U.	1	
31 (1)	VXL2431	T3 ARM (A) U.	1	
32 (1)	VXL2139	PINCH ARM U.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
33 (1)	VXL2140	PINCH DRIVE ARM U.	1	
34 (1)	VMB2363	PINCH PRESSURE SPRING	1	
35 (1)	VXL2144	PAD ARM U.	1	
36 (1)	VXL2145	TEN-REG. ARM U.	1	
37 (1)	VMB2364	TEN-REG. SPRING	1	
38 (1)	VXL2399	IDLER U.	1	
39 (1)	VXP1308	RELAY GEAR U.	1	
40 (1)	VXP1313	T-DRIVE GEAR U.	1	
41 (1)	VEG1485	CYLINDER U.	1	NV-RX17EG/E
				NV-RX18EG ONLY
41 (1)	VEG1486	CYLINDER U.	1	EXCEPT
				NV-RX17EG/E, NV-RX18EG
51 (1)	VMB2369	LOCK SPRING	1	
B1 (1)	XQN14+B25FY	SCREW	3	
B2 (1)	XQN14+A14	SCREW	2	
B3 (1)	XQN14+B2	SCREW	13	
B4 (1)	XQN14+BJ35	SCREW	1	
B6 (1)	XQN14+CF4	SCREW	4	
B7 (1)	XQN14+C5	SCREW	1	
B8 (1)	XQN14+C35R	SCREW	3	
B9 (1)	VHD0711	SCREW	2	
B10 (1)	VHD0700	SCREW	1	
B11 (1)	VHD0699	SCREW	1	
B12 (1)	XQN14+C2	SCREW	2	
B13 (1)	VHD0707	SCREW	1	
N1 (1)	VHN0047	NUT	1	
N2 (1)	VHN0175	NUT	1	
W1 (1)	VMX2027	WASHER	6	
W2 (1)	VMX2026	WASHER	4	
W3 (1)	VMX2051	WASHER	1	
W4 (1)	XWGV12Z3G	WASHER	2	
W5 (1)	XWGV12Y3G	WASHER	3	
W6 (1)	XWGV0007	WASHER	1	
W7 (1)	VMX2366	WASHER	1	
W8 (1)	VMX2359	CUT WASHER	2	

11.3. VTR MECHANISM SECTION (2)

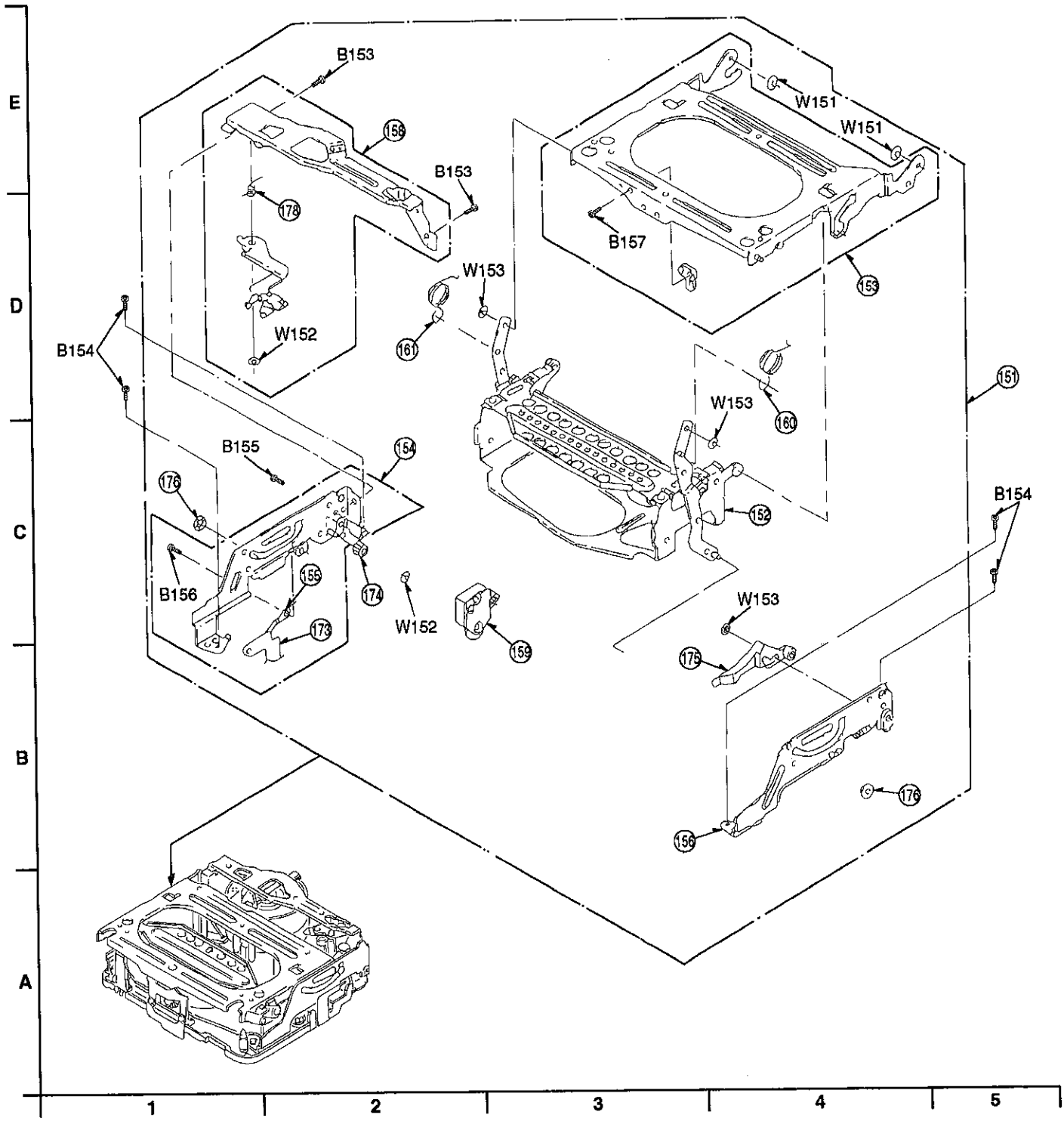


11.4. VTR MECHANISM SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
101 (2)	VDV0232	CAPSTAN BELT	1	
104 (2)	VMD1846	CAPSTAN STOPPER	1	
106 (2)	VSH0065	REC SAFETY SW U.	1	
107 (2)	VWJ0878	MECH.FLEXIBLE CARD	1	
108 (2)	VXA4511	PHOTO (L) U.	1	
110 (2)	VXA4997	T-REEL SENSOR U.	1	
111 (2)	VDB1129	LOWER BEARING	1	
112 (2)	VEK7314	STATOR U.	1	
113 (2)	VBK0059	MR HEAD	1	
114 (2)	VXD0134	HOUSING U.	1	
115 (2)	VXP1303	ROTOR U.	1	
119 (2)	VMP4923	H.A. EARTH PLATE	1	
120 (2)	VMD1842	REEL SENSOR MOUNT	1	
121 (2)	0N2170-LM	REEL SENSOR	1	
B102 (2)	VHD0593	SCREW	1	
B103 (2)	XQN14+B25FY	SCREW	1	
B104 (2)	XQN14+C2R	SCREW	4	
B106 (2)	XQN14+A3	SCREW	3	
B107 (2)	XQN14+CF4	SCREW	1	
B108 (2)	XQN14+C2	SCREW	1	
B109 (2)	VHD0875	SCREW	1	

11.5. VTR MECHANISM SECTION (3)



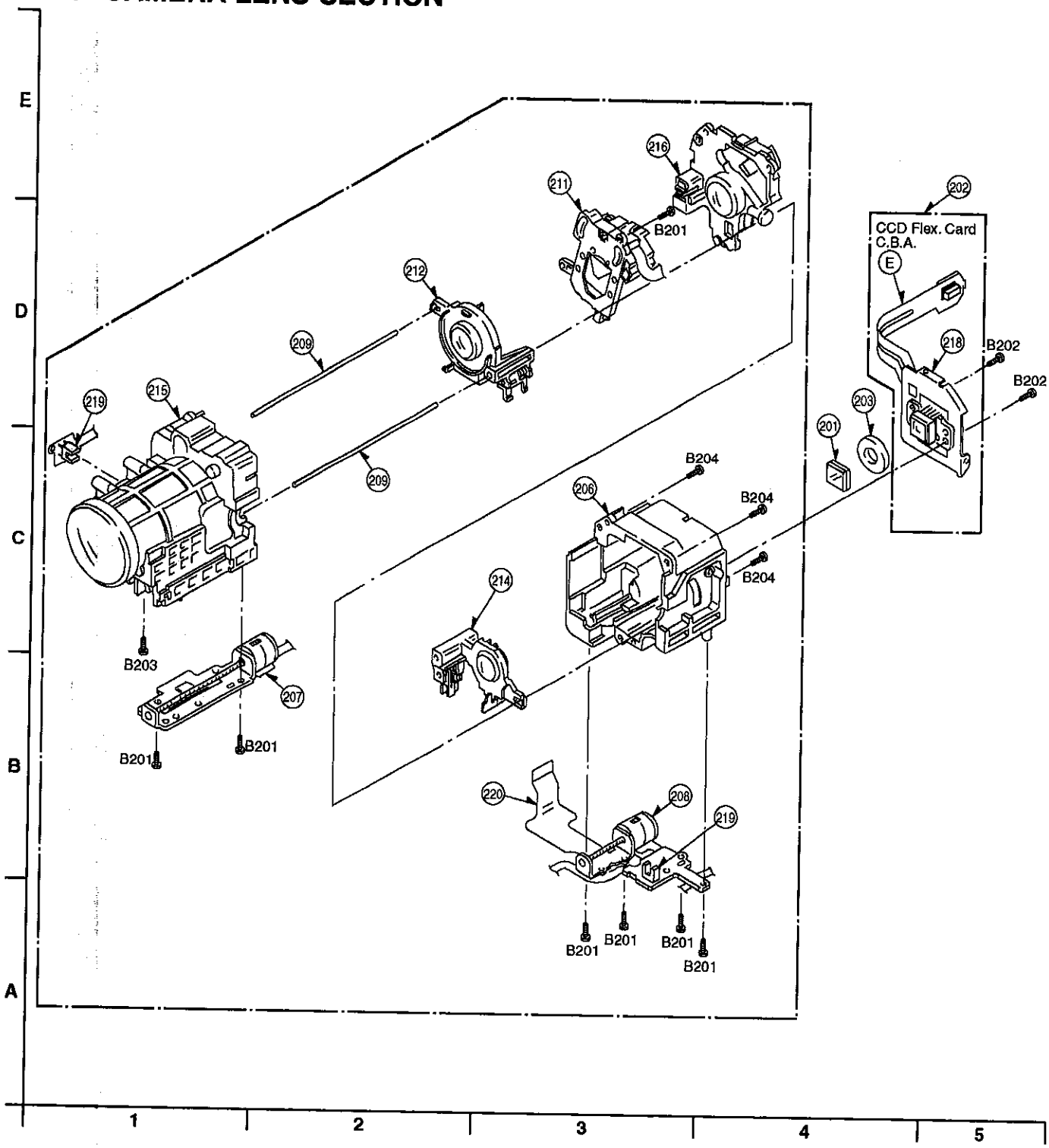
11.6. VTR MECHANISM SECTION (3) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
151 (3)	VXA5725	GARAGE U.	1	
152 (3)	VXA5199	HOLDER U.	1	
153 (3)	VXA4863	GARAGE (1) U.	1	
154 (3)	VXA4510	STAND (L) U.	1	
155 (3)	VXA4511	PHOTO (L) U.	1	
156 (3)	VXA5000	STAND (R) U.	1	
158 (3)	VXL2222	TAPE GUIDE U.	1	
159 (3)	VXP1472	DUMPER	1	
160 (3)	VMB2367	UP SPRING (R)	1	
161 (3)	VMB2366	UP SPRING (L)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
173 (3)	VWJ0548	PHOTO FLEX.CARD	1	
174 (3)	VDG0827	DUMPER RELAY GEAR	1	
175 (3)	VML2580	TAPE OPEN LEVER	1	
176 (3)	VDP1406	ARM HOLDER	2	
178 (3)	VMB2498	TAPE GUIDE SPRING	1	
B153 (3)	XQN14+BF2	SCREW	2	
B154 (3)	VHD0838	SCREW	4	
B155 (3)	XQN16+AJ8	SCREW	1	
B156 (3)	XQN14+CM2	SCREW	1	
B157 (3)	XQS14+A25FZ	SCREW	1	
W151 (3)	VMX1042	WASHER	2	
W152 (3)	VMX1061	WASHER	2	
W153 (3)	XWGV0006	WASHER	3	

11.7. CAMERA LENS SECTION

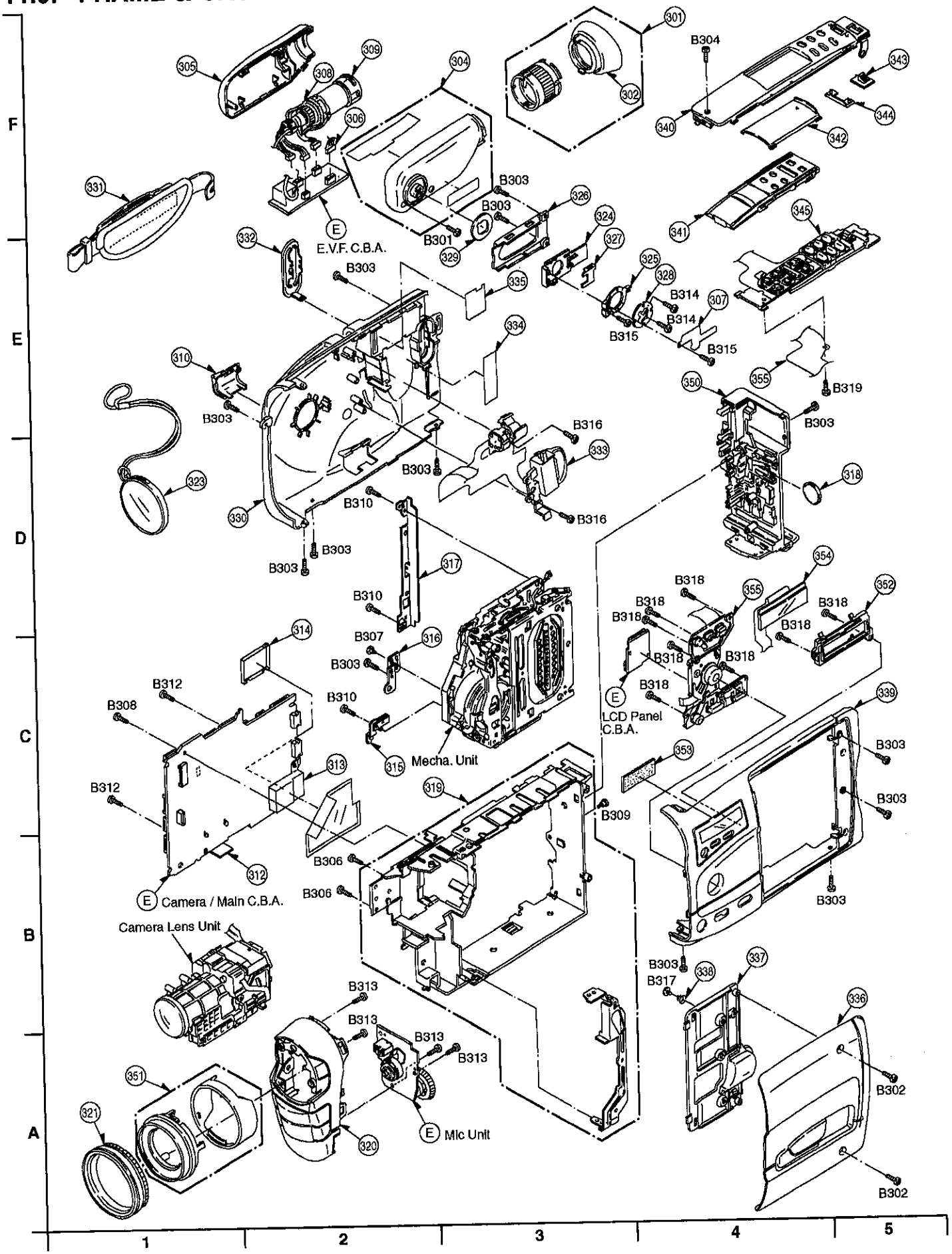


11.8. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
201 (4)	VDL0790	CRYSTAL FILTER	1	
202 (4)	VEK8600	CCD U.	1	
203 (4)	VMX2712	CCD CUSHION	1	
204 (4)	VXW0436	LENS U.	1	
206 (4)	VDW0615	MASTER FLANGE	1	
207 (4)	VEM0642	ZOOM MOTOR U.	1	
208 (4)	VEM0643	FOCUS MOTOR U.	1	
209 (4)	VMS6423	GUIDE POLE	2	
211 (4)	VXL2855	IRIS U.	1	
212 (4)	VXP1925	2ND. MOVING FRAME U.	1	
214 (4)	VXP1927	4TH. MOVING FRAME U.	1	
215 (4)	VXQ0794	MAIN FRAME U.	1	
216 (4)	VXQ0795	3RD. LENS FRAME U.	1	
218 (4)	VSC4696	CCD SHIELD CASE	1	
219 (4)	0N1004-R	PHOTO INTERRUPTER	2	
220 (4)	VJB20772	FLAT CARD CABLE	1	
B201 (4)	XQN16+BJ5	SCREW	7	
B202 (4)	XQN16+CJ6	SCREW	2	
B203 (4)	VHD0852	SCREW	1	
B204 (4)	XQN16+BJ8	SCREW	3	

11.9. FRAME & CASING SECTION



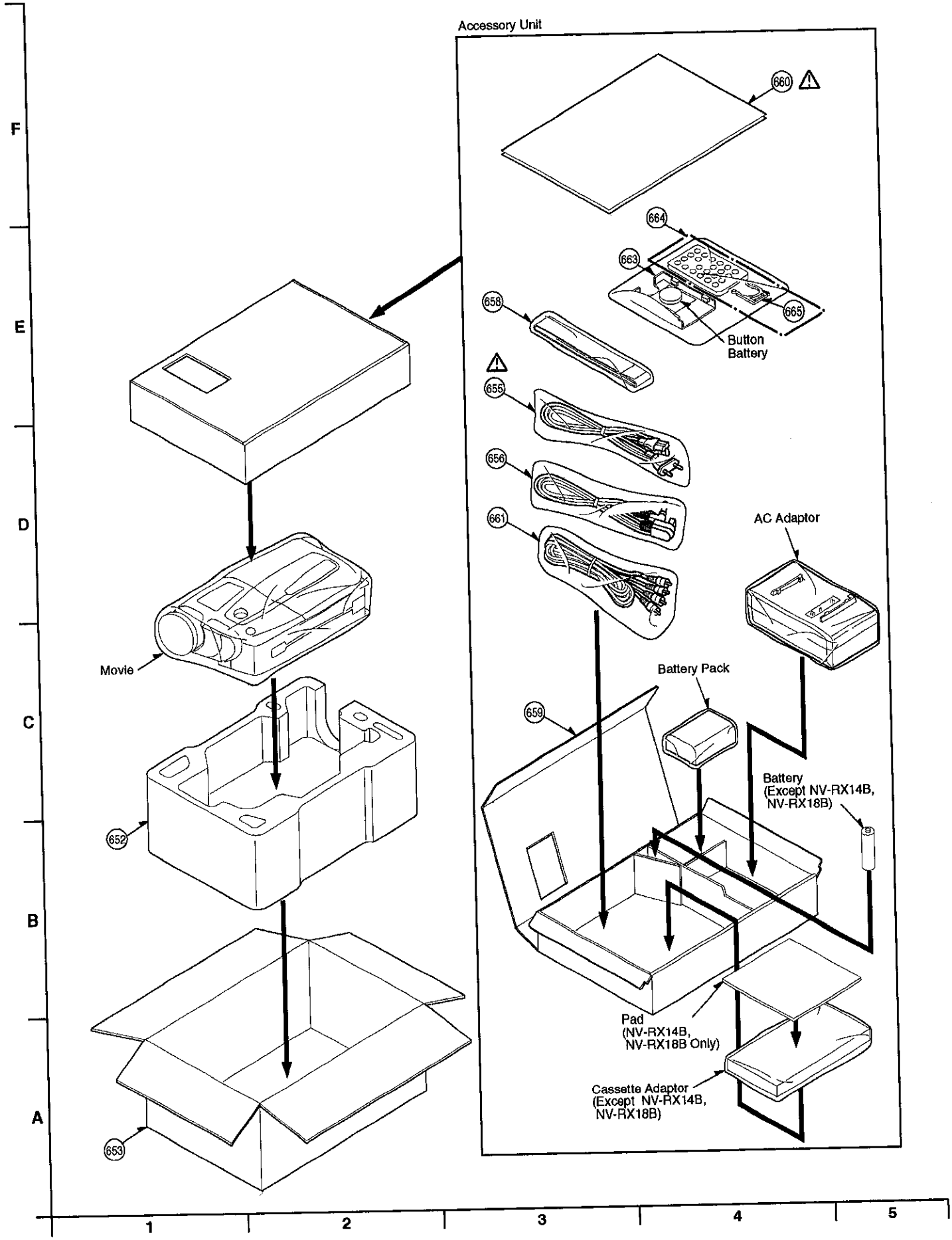
11.10. FRAME & CASING SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
301 (5)	VYK8075	FINDER CASE U.	1	
302 (5)	VMG0631	EYE CAP	1	
304 (5)	VYK8074	EVF CASE (R) U.	1	
305 (5)	VKM4836	EVF CASE (L)	1	
306 (5)	VEE0F07	CONNECTOR U.	1	
307 (5)	VMZ2792	EVF ROTARY SEC. BARRIER	1	
308 (5)	ELY05V584B	DY (DY801)	1	
309 (5)	M01LGM07WB02	CRT (V801)	1	
310 (5)	VKF2827	EVR COVER	1	
312 (5)	VSC4600	H.A. SHIELD CASE	1	
313 (5)	VSC4866	POWER SHIELD CASE (UPPER)	1	
314 (5)	VSC4867	POWER SHIELD CASE (LOWER)	1	
315 (5)	VMP4923	H.A. EARTH PLATE	1	
316 (5)	VMP5560	MECH. SUPPORT PLATE (F)	1	
317 (5)	VYQ1555	MECH. SUPPORT PLATE U.(R)	1	
318 (5)	ML2020	LITHIUM BATTERY	1	
319 (5)	VYQ1659	MAIN FRAME U.	1	
320 (5)	VYK8767	FRONT CASE (1) U.	1	NV-R17EG/EN/ENH/E
				NV-RX14B
320 (5)	VYK8774	FRONT CASE (1) U.	1	NV-RX18EG/B/EN
321 (5)	VYQ1661	LENS HOOD U.	1	
323 (5)	VYF2454	HOOD CAP U.	1	
324 (5)	VGQ4716	SLIDE PIECE	1	
325 (5)	VMC1381	EVF ROTATION SPRING	1	
326 (5)	VGQ4749	EVF FIXING PIECE	1	
327 (5)	VGQ4806	EVF WIRE COVER	1	
328 (5)	VMP5574	EVF ROTATION PLATE	1	
329 (5)	VMX2713	SPACER SHEET	1	
330 (5)	VKM5131	SIDE CASE (L)	1	
331 (5)	VYC0618	GRIP BELT	1	
332 (5)	VKF2930	AV JACK COVER	1	
333 (5)	VXU1487	S/S ZOOM SW U.	1	
334 (5)	VMZ2785	WIRE BARRIER	1	
335 (5)	VMZ2782	BLINDER BARRIER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
336 (5)	VYK8771	CASSETTE COVER (1) U.	1	NV-RX17EG/E
336 (5)	VYK8781	CASSETTE COVER (1) U.	1	NV-RX14B
336 (5)	VYK8801	CASSETTE COVER (1) U.	1	NV-RX17EN/ENH
336 (5)	VYK8776	CASSETTE COVER (1) U.	1	NV-RX18EG/B
336 (5)	VYK8986	CASSETTE COVER (1) U.	1	NV-RX18EN
337 (5)	VGU8068	CASSETTE LOCK BUTTON	1	
338 (5)	VMB3300	CASSETTE COIL SPRING	1	
339 (5)	VYK8769	SIDE CASE (R)(1) U.	1	NV-RX17EG/E
				NV-RX14B
				NV-RX18EG/B
339 (5)	VYK8779	SIDE CASE (R)(1) U.	1	NV-RX17EN/ENH
				NV-RX18EN
340 (5)	VKM5130	TOP CASE	1	
341 (5)	VGP4678	TOP OPERATION PANEL	1	
342 (5)	VKF3020	CURSOR	1	
343 (5)	VGU7722	EJECT KNOB	1	
344 (5)	VGL0785	TOP PANEL LIGHT	1	
345 (5)	VXU1519	VTR OP. U.	1	
350 (5)	VEK8519	REAR CASE U.	1	
351 (5)	VYQ1517	LENS COVER U.	1	
352 (5)	VGQ5183	LCD PANEL HOLDER	1	
353 (5)	VGQ5314	LCD PANEL BARRIER	1	
354 (5)	VSL0517	LCD PANEL U.	1	
355 (5)	VXU1521	CAMERA OP. U.	1	
B301 (5)	XQN2+CJ8FZ	SCREW	1	
B302 (5)	XQN2+CF7FZ	SCREW	2	
B303 (5)	XQN2+CJ6FZ	SCREW	13	
B304 (5)	XQN2+CJ8FZ	SCREW	1	
B306 (5)	VHD1054	SCREW	2	
B307 (5)	VHD1140	SCREW	1	
B308 (5)	XTB2+4J	SCREW	1	
B309 (5)	VHD0713	SCREW	1	
B310 (5)	XQN14+C3	SCREW	3	
B312 (5)	XQN2+CF5	SCREW	2	
B313 (5)	XQN2+CJ4	SCREW	4	
B314 (5)	XQN16+BJ3	SCREW	2	
B315 (5)	VHD1139	SCREW	2	
B316 (5)	XQN2+CJ8	SCREW	2	
B317 (5)	VHD0794	SCREW	1	
B318 (5)	XQN2+BJ4	SCREW	8	
B319 (5)	XQN2+B2	SCREW	1	

11.11. PACKING PARTS & ACCESSORIES SECTION



11.12. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
652 (6)	VPN5109	CUSHION (LOWER)	1	
653 (6)	VPG9750	PACKING	1	NV-RX17EG
653 (6)	VPG9751	PACKING	1	NV-RX14B
653 (6)	VPG9752	PACKING	1	NV-RX17EN
653 (6)	VPG9753	PACKING	1	NV-RX17ENH
653 (6)	VPG9922	PACKING	1	NV-RX17E
653 (6)	VPG9756	PACKING	1	NV-RX18EG
653 (6)	VPG9757	PACKING	1	NV-RX18B
653 (6)	VPG9758	PACKING	1	NV-RX18EN
⚠ 655 (6)	VJA0664	AC CORD	1	NV-RX17EG/EN/E
				NV-RX18EG/EN
⚠ 655 (6)	VJA0940	AC CORD	1	NV-RX17ENH
				NV-RX14B
				NV-RX18B
656 (6)	VJA1087	DC OUTPUT CABLE	1	
658 (6)	VFC2522	SHOULDER STRAP	1	
659 (6)	VPN5108	ACCESSORIES BOX	1	
⚠ 660 (6)	VQT7790	OPERATING INSTRUCTIONS	1	NV-RX17EG/E
		(GERMAN/FRENCH/		
		DUTCH/DANISH)		
⚠ 660 (6)	VQT7794	OPERATING INSTRUCTIONS	1	NV-RX14B
		(ENGLISH)		
⚠ 660 (6)	VQT7795	OPERATING INSTRUCTIONS	1	NV-RX17EN/ENH
		(ENGLISH/CHINESE/		
		RUSSIAN/ARABIC)		
⚠ 660 (6)	VQT7807	OPERATING INSTRUCTIONS	1	NV-RX18EG
		(GERMAN/FRENCH/		
		DUTCH/DANISH)		
⚠ 660 (6)	VQT7808	OPERATING INSTRUCTIONS	1	NV-RX18EG
		(ITALIAN/ENGLISH/		
		SPANISH/SWEDISH)		
⚠ 660 (6)	VQT7811	OPERATING INSTRUCTIONS	1	NV-RX18B
		(ENGLISH)		
⚠ 660 (6)	VQT7812	OPERATING INSTRUCTIONS	1	NV-RX18EN
		(ENGLISH/CHINESE/		
		RUSSIAN/ARABIC)		
661 (6)	VFA0039	AV CORD	1	
663 (6)	VGQ6813	REMOTE CONTROLLER HOLDER	1	NV-RX18EG/B/EN ONLY
664 (6)	VEQ1897	REMOTE CONTROLLER	1	NV-RX18EG/B/EN ONLY
665 (6)	VJF1262	BATTERY COVER	1	NV-RX18EG/B/EN ONLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		****** JIG & TOOLS ******		
		—— ELECTRICAL ——		
		TATSUJIN KIT		
		(For individual part		
		numbers of Tatsujin Kit,		
		Please refer to		
		Technical Information		
		Order No. VRD9609T08)		
	VFKW0F0033	ATTACHMENT CABLE	2	OR VFK0870
	VFKW0F0056	ATTACHMENT CABLE	2	(OR VFKW0F0055)
	VFKW0F0001	COMMON CABLE	2	
	VFKW0F0128	ATTACHMENT CABLE	1	OR VFK0978
	VFKW0F0127	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0118	ATTACHMENT CABLE	1	OR VFK0929
	VFKW0F0117	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0132	ATTACHMENT CABLE	1	OR VFK0980
	VFKW0F0131	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0111	ATTACHMENT CABLE	1	OR VFK013
	VFKW0F0112	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFKW0F0140	ATTACHMENT CABLE	1	
	VFKW0F0139	ATTACHMENT CABLE	1	
	VFKW0F0001	COMMON CABLE	1	
	VFK0668	EXTENSION CABLE	1	
		—— MECHANICAL ——		
	VFK0743	H-POSITION ADJUSTMENT	1	
	VFK0824	ASTERISK TYPE WRENCH	1	
	VFM8180HUPF	VHS-C ALIGNMENT TAPE	1	
	VFK0329	POST ADJ. SCREW DRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK1024	MORLYTONE GREASE	1	

12 ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP23474A	CAMERA/MAIN C.B.A.	1	(RTL)
■	VEP28259A	E.V.F. C.B.A.	1	(RTL)
■	VEP22276B	CCD FLEX. CARD C.B.A.	1	(RTL)
■	VEP00Z89A	SMALL LCD DRIVE C.B.A.	1	(RTL)
■	VEK8577	MIC UNIT	1	NV-RX17EG/E/EN/ENH
				NV-RX14B
■	VEK8578	MIC UNIT	1	NV-RX18EG/B/EN
■	VEP23474A	CAMERA/MAIN C.B.A.		(RTL)
C301	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C302	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C303	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C304,05	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	2	
C306	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C308	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C309	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C310	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C311	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	1	
C312	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C313,14	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C315	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C316	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C317	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C318	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C321	ECEV0GA101	E.CAPACITOR CH 4V 100U	1	
C322-24	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C327	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C328	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330-33	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C335	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C338	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C347	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C358,59	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	2	
C360	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C361	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C362	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C364	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C365	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C366,67	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	2	
C368	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C369	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C371	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C372	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C374	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C375	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C376	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C377	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C382	ECEV1AA101U	E.CAPACITOR CH 10V 100U	1	
C383	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C385	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C386	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C701	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C702	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C703	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C704	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C705	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C711	ECEV1CA470P	E.CAPACITOR CH 16V 47U	1	
C713	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C715,16	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C718	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C719	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C721	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C724	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C727	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1001	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1003	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1004	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1005	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1008	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1009	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C1010	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1012	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1014	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1017	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1019,20	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	2	
C1022	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1026	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C1027	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1028	ECEV1HAR47	E.CAPACITOR CH 50V 0.47U	1	
C1030	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1032-35	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	4	
C1036	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1037	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1041	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1046	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1057	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1063,64	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	2	
C1065,66	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C1071	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1080,81	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C1602	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1603	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C2001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2009	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2020	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2033	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1	
C2043	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C2202	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2203	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2207	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C2208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2210	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2212	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2213,14	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C2216	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2217	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2219	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2220	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C2221	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2222,23	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C2224-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C2227	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2233	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3004	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3005	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C3006	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3008	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3009,10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3016	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3018	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3019,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3023	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3024	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3026	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3027	ECEV1AAN100	E.CAPACITOR CH 10V 10U	1	
C3028	ECEV0GA471	E.CAPACITOR CH 4V 470U	1	
C3029	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C3030	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3033	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3035	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4001	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4002	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4003	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C4004	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4005	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C4006	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4007	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C4009	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4012	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
C4014	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C4015	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4016	ECUM2A472JCM	C.CAPACITOR CH 100V 4700P	1	
C4017	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4019	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C4020	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4021,22	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C4023	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C4024	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	1	
C4025	ECST0JY685Z	T.CAPACITOR CH 6.3V 6.8U	1	
C4026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4027	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C4028	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4029	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C4030	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4031	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4032	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C4034	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4035	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4036	ECST0JY335Z	T.CAPACITOR CH 6.3V 3.3U	1	
C4037	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4038	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4039	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4801	ECUX1C823KBV	C.CAPACITOR CH 16V 0.082U	1	
C4803	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C4804	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4805,06	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	2	
C4807	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C4808	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5001-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C5005-08	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	4	
C5009,10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5011	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5012,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5014	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5016	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5017	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5018	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5020,21	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5023-25	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C5041	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5501,02	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C5504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5506	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5507	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C5508	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5509	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5510	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5512	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C5513	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5514	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5515	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5516	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5518	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5519	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5520	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5521	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5522	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C5523	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5525	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5526	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C5527	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5530	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5531	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5534	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6002-04	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6006,07	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C6009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6010	ECEV1AA101U	E.CAPACITOR CH 10V 100U	1	
C6011	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECEV1CA470P	E.CAPACITOR CH 16V 47U	1	
C6015,16	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6017	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6018	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C6019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6020,21	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6024,25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C6026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6027	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6028	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6029	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6030	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6032-34	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C6038	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6039	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6040,41	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C6042	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6044,45	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C6047	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6048	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6051	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6053	ECEV0GA221	E.CAPACITOR CH 4V 220U	1	
C6054	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6056	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C6057,58	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C6201	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C6202,03	ECEV1CA100	E.CAPACITOR CH 16V 10U	2	
C6205	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
C6206	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6207	ECEV05A470	E.CAPACITOR CH 4V 47U	1	
C6208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
D301	MA111	DIODE	1	
D304	1SS355	DIODE	1	
D1006,07	MA111	DIODE	2	
D1009	MA8180-M	DIODE	1	
D1015	EC10QS03L12	DIODE	1	
D1020	1SS355	DIODE	1	
D1601-04	MA8160-M	DIODE	4	
D3001	MA133	DIODE	1	
D3004	MA111	DIODE	1	
D4001	MA8030	DIODE	1	
D5501	MA111	DIODE	1	
D6001	MA111	DIODE	1	
D6002	MA728	DIODE	1	
D6003	SB05-05CP	DIODE	1	
D6004	MA8030	DIODE	1	
D6005,06	MA728	DIODE	2	
D6007	MA111	DIODE	1	
D6009,10	MA132WA	DIODE	2	
D6013	MA111	DIODE	1	
D6014,15	MA132WA	DIODE	2	
D6016	MA133	DIODE	1	
D6017	MA132WA	DIODE	1	
D6019	MA132WA	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D6020	MA728	DIODE	1	
D6021,22	MA132WA	DIODE	2	
D6023	MA728	DIODE	1	
D6025-27	MA132WA	DIODE	3	
D6201	MA111	DIODE	1	
FP701	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
FP2001	VJS3911A007	CONNECTOR (FEMALE) 7P	1	
FP2002	VJS2959B018	CONNECTOR (FEMALE) 18P	1	
FP4001	VJS2958D009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3913B012P	CONNECTOR (FEMALE) 12P	1	
FP6001	VJS2959B013	CONNECTOR (FEMALE) 13P	1	
FP6001	VJS2959B018	CONNECTOR (FEMALE) 18P	1	
FP6002	VJS2959B006	CONNECTOR (FEMALE) 6P	1	
FP6003	VJS3930B021	CONNECTOR (FEMALE) 21P	1	
FP6004	VJS3654B008	CONNECTOR (FEMALE) 8P	1	
FP6006	VJS3931B024	CONNECTOR (FEMALE) 24P	1	
IC301	F712524APBW	IC	1	
IC302	M62366GP	IC	1	
IC303	XC62FP3302MR	IC	1	
IC304	BU2990-02	IC	1	
IC305	TC7W74FU	IC	1	
IC313	MN7E002B2S1	IC	1	
IC314	M52948FP	IC	1	
IC315	MN31121SA	IC	1	
IC316	XC62FP3002MR	IC	1	
IC701,02	TB6526AF	IC	2	
IC706	NJM2115VA	IC	1	
IC711	TA75W01FU	IC	1	
IC1001	BA9706K	IC	1	
IC2201	TB6538F	IC	1	
IC2202,03	UN224	TRANSISTOR-RESISTOR	2	
IC3001	HA118603F	IC	1	
IC5001	AN3355FHP	IC	1	
IC5501	MSM7470-73MS	IC	1	
IC6002	S3514AEFSTB	IC	1	
IC6003	MN103004JBA	IC	1	
IC6004	XC62FP3702MR	IC	1	
IC6005	BA6289F	IC	1	
IC6006	TA75W393FU	IC	1	
IC6007	S80821ANNP	IC	1	
IC6008	AK6480AF	IC	1	
IC6009	S80825ANNP	IC	1	
IC6010	XC62FP2602PR	IC	1	
IC6011	XC62FP3002MR	IC	1	
IC6201	BA8400FV	IC	1	
IC6202	XC62FP3002MR	IC	1	
L301	VLQ0319K100	COIL 10UH	1	
L302	VLQ0426J220	COIL 22UH	1	
L303	ELJFA390JB	COIL 39UH	1	
L304	VLQ0426J2R2	COIL 2.2UH	1	
L305	ELJPA470KB	COIL 47UH	1	
L306	VLQ0426J220	COIL 22UH	1	
L316	VLQ0426J6R8	COIL 6.8UH	1	
L322	VLQ0426J470	COIL 47UH	1	
L703	VLQ0319K100	COIL 10UH	1	
L1001	VLQ0833M4R7	COIL 4.7UH	1	
L1002	VLQ0827M220	COIL 22UH	1	
L1003	VLQ0834M4R7	COIL 4.7UH	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0827M470	COIL 47UH	1	
L1008	VLQ0319M4R7	COIL 4.7UH	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1014	VLQ0319K100	COIL 10UH	1	
L1015	ELJPA470KB	COIL 47UH	1	
L1061,62	VLQ0827M330	COIL 33UH	2	
L3002	VLQ0319K100	COIL 10UH	1	
L3003	ELJFA820JB	COIL 82UH	1	
L3004	VLQ0426J120	COIL 12UH	1	
L4005	VLQ0319K101	COIL 100UH	1	
L6001-04	ELJPA470KB	COIL 47UH	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L5501	ELJPA470KB	COIL 47UH	1	
L5502	ELJFA100JB	COIL	1	
L5503	ELJFC120ZB	CHIP INDUCTOR	1	
L5504	ELJFA390JB	COIL 39UH	1	
L5506	ELJPA470KB	COIL 47UH	1	
L5507	ELJFA121JB	COIL 120UH	1	
L6201	ELJPA470KB	COIL 47UH	1	
LB302-04	VLP0175	COIL	3	
LB309,10	VLP0153	COIL	2	
LB312	VLP0175	COIL	1	
LB1601,02	VLP0307	COIL	2	
LB6001-04	VLP0153	COIL	4	
P1001	VJP3172B004	CONNECTOR (MALE) 4P	1	
PP301	VJP3358A012	CONNECTOR (MALE) 12P	1	
PP3001	VJP3359D040	CONNECTOR (MALE) 40P	1	
PS1003	VJS4005B006	CONNECTOR (FEMALE) 6P	1	
PS3009	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
Q201	XP4601	TRANSISTOR-TRANSISTOR	1	
Q301	XP4401	TRANSISTOR	1	
Q701-03	IMT17T110	TRANSISTOR	3	
Q704	2SD601A	TRANSISTOR	1	
Q706	IMT17T110	TRANSISTOR	1	
Q707	2SB798	TRANSISTOR	1	
Q708	XP4501	TRANSISTOR-TRANSISTOR	1	
Q1001	2SB1073	TRANSISTOR	1	
Q1003	MPL1	TRANSISTOR	1	
Q1004	2SD2210	TRANSISTOR	1	
Q1010	2SB1462-R	TRANSISTOR	1	
Q1061,62	MPL1	TRANSISTOR	2	
Q3001	XP4501	TRANSISTOR-TRANSISTOR	1	
Q3002	XP4401	TRANSISTOR	1	
Q3010	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4001	XP6401	TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4003	2SB1219	TRANSISTOR	1	
Q4004	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4006	2SB1462-R	TRANSISTOR	1	
Q4007	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4009	2SD2216	TRANSISTOR	1	
Q4014	XP4601	TRANSISTOR-TRANSISTOR	1	
Q4801	2SD2216	TRANSISTOR	1	
Q4802	XP4501	TRANSISTOR-TRANSISTOR	1	
Q5001,02	XN4504	TRANSISTOR-TRANSISTOR	2	
Q5003	2SA812	TRANSISTOR	1	
Q5501	2SD2216	TRANSISTOR	1	
Q5502	2SB1462-R	TRANSISTOR	1	
Q5504	2SD2216	TRANSISTOR	1	
Q6001	2SD1030	TRANSISTOR	1	
Q6002	2SB1462-R	TRANSISTOR	1	
Q6003	2SD2216	TRANSISTOR	1	
Q6004	2SD874	TRANSISTOR	1	
Q6006	XP1501	TRANSISTOR-TRANSISTOR	1	
QR301	MRN2103	TRANSISTOR-RESISTOR	1	
QR302	MRN2107	TRANSISTOR-RESISTOR	1	
QR304	XP1213	TRANSISTOR-RESISTOR	1	
QR701	MRN1102	TRANSISTOR-RESISTOR	1	
QR1001	MRN2102	TRANSISTOR-RESISTOR	1	
QR1005	UN9217	TRANSISTOR-RESISTOR	1	
QR1061	MRN2111	TRANSISTOR-RESISTOR	1	
QR1701	UN2130X	TRANSISTOR-RESISTOR	1	
QR2002	MRN1111	TRANSISTOR-RESISTOR	1	
QR4003	MRN2103	TRANSISTOR-RESISTOR	1	
QR4004	XP1215	TRANSISTOR-TRANSISTOR	1	
QR4005	MRN1104	TRANSISTOR-RESISTOR	1	
QR4008	MRN1104	TRANSISTOR-RESISTOR	1	
QR5502	MRN1103	TRANSISTOR-RESISTOR	1	
QR6001	MRN2107	TRANSISTOR-RESISTOR	1	
QR6004	XP4115	TRANSISTOR-RESISTOR	1	
QR6005	MRN2103	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR6007	MRN1102	TRANSISTOR-RESISTOR	1	
QR6008	MRN1107	TRANSISTOR-RESISTOR	1	
QR6009	UN9210	TRANSISTOR-RESISTOR	1	
QR6012	UN9110	TRANSISTOR-RESISTOR	1	
QR6013	MRN2111	TRANSISTOR-RESISTOR	1	
QR6014	MRN1111	TRANSISTOR-RESISTOR	1	
QR6050	XP1213	TRANSISTOR-RESISTOR	1	
QR6801	MRN2111	TRANSISTOR-RESISTOR	1	
R301	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R303,04	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R305	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R308	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R309	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R310,11	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R312	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R317	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R318	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R319	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R321	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R323	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R324	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R325	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R326	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R328	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R329	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R330	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R332	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R334	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R335	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R336	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R337	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R338	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R339	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R344,45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R346	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R347	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R358	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R360	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R361	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R363	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	2	
R370	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R371	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R373	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R376	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R377	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R379	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R380	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R381	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R382	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R386	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R394	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R396	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R400	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R401	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R701-04	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	4	
R705	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R706	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R708	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R709	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R711	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R712	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R713	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R716	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R717	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R718	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R722	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R723	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R726	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R727	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R728	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R729	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R730	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R731	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R732	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R733	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R734,35	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R736,37	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	2	
R738	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R740	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R743	ERJ3RBD752	M.RESISTOR CH 1/16W 7.5K	1	
R745	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R761	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1002	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1005	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1006	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1007	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R1008	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1009	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R1012	ERJ6RHD1872	M.RESISTOR CH 1/10W 18.7K	1	
R1013	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	1	
R1014,15	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	2	
R1016	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R1017	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1018	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R1019	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1020	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R1021	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R1022	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R1023	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1024	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1025	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1035	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1038	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1039	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1040	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1	
R1052	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R1057	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1063	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1064,65	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R1066	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1068	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1071	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1072	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1085,86	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
⚠ R1601	VSF0226D25T	FUSE	1	
R1602	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1603	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R1699	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R1703	ERJ3GEYJ301	M.RESISTOR CH 1/16W 300	1	
R1726	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1727	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1805-07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R2001,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R2010	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R2012	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R2019,20	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	2	
R2201	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R2202	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R2203	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R2205	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2207	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2209	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R2210	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2211	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R2212	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R2216	ERJ8RQJR22	M.RESISTOR CH 1/8W 0.22	1	
R3001	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3004	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3005	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3006	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R3007	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R3008	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3009	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3020	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3022	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3023	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3025	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3026	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3030	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3050	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3057	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3058	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3059	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3060	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
R4001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4002	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R4004	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4005	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R4006	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4007	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4008	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4009	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2K	1	
R4010	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R4011	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4012	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4013	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R4014	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4015,16	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4017	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	1	
R4018	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4019	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4020	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4021	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R4022	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4023	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4024	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4025,26	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R4027,28	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	2	
R4029	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4030	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4031	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R4032	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4033	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4034	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4035	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4036	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4037	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4038	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R4040	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4041	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4042	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4050	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4060	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4801	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4802	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4803	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4804	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4805	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R4806	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4807	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4808,09	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	2	
R4811	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4814	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4815	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4830	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5002,03	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	

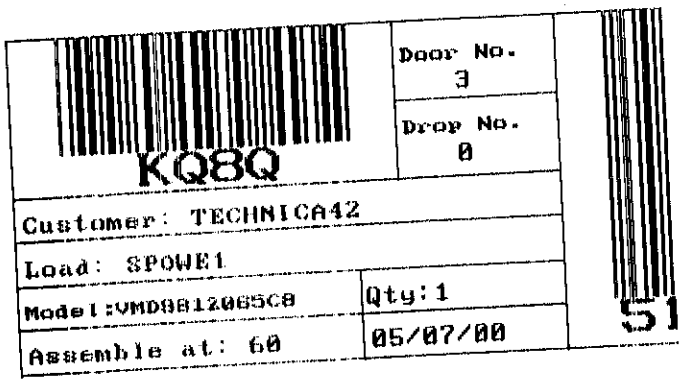
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5004	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5005	ERJ3GEYG113	M.RESISTOR CH 1/16W 11K	1	
R5007	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R5008	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7	1	
R5500	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5502	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R5505	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5508	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5509	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5510	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5513	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2K	1	
R5514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5515	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R5516	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5517	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5521	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R5522	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R5523	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5524	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5526,27	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R6001	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R6002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6004	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6005	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6006	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6007	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6011	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6012	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6013	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R6014	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6015	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6016	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6017	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R6020	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	1	
R6021-23	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	3	
R6024	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6025	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R6026	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R6027	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R6029	ERJ3GEYJ304	M.RESISTOR CH 1/16W 30K	1	
R6030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6031	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6032	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6033	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6034	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6035	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6036,37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6038	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6041	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	1	
R6042	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6043	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6046	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6048,49	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R6050	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6052	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6053	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6056	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6058	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R6059	ERJ3RBD433	M.RESISTOR CH 1/16W 47K	1	
R6060	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6061	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6062,63	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6064	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
R6065	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6067	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R6068	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6069	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R6070	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R6075	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6078	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6079	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6080	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6081	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6082	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6083	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6084	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6085,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R6087	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R6088,89	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R6090	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R6092	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6093	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6094	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6095	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6097	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6099	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6100	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6101	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6103	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6104	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6105	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6106	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R6107	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R6108	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6109	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6110	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R6111	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R6112	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6113-15	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	3	
R6116	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6117	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6118	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6119,20	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R6121	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6122	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R6123	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6124	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R6125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6126	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R6127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6128	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R6129,30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R6131	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6132,33	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R6203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R6204	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R6205	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R6206	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6207	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6211	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6801	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R6802	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
RA301	EXBV4V104J	RESISTOR-RESISTOR	1	
RA704	EXBV4V473J	RESISTOR-RESISTOR	1	
RA6001	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6002	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6003	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6004	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6006	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6007	EXBV8V683J	RESISTOR-RESISTOR	1	
RA6008	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6009	EXBV4V222J	RESISTOR-RESISTOR	1	
RA6010	EXBV8V102J	RESISTOR-RESISTOR	1	
RA6011	EXBV4V683J	RESISTOR-RESISTOR	1	
T1001	ELL04T079R	CHOKE COIL	1	
T4001	EQQ6QB009T	TRANSFORMER	1	
X301	VSX1029-T	CRYSTAL OSCILLATOR	1	
X6001	VSX0917	CRYSTAL OSCILLATOR	1	
X6003	VSX0801	CRYSTAL OSCILLATOR	1	
■	VEP26259A	E.V.F. C.B.A.		(RTL)
C801	ECQV1H104JL	P.CAPACITOR 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C802	ECA1CKF470	E.CAPACITOR 16V 47U	1	
C803,04	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C805	ECEA0JKE221	E.CAPACITOR 6.3V 220U	1	
C806	ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C807	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C809	ECA1CKF470	E.CAPACITOR 16V 47U	1	
C811	VCEA1ACC101	E.CAPACITOR 10V 100U	1	
C812	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C813	ECUM2J221KBM	C.CAPACITOR CH 630V 220P	1	
C814	VCEA1HCC010	E.CAPACITOR 10V 100U	1	
C815	ECUM2H331KBM	C.CAPACITOR CH500V 330P	1	
C816	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C818	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C831,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C833	ECUM2A472JUM	C.CAPACITOR CH100V 4700P	1	
D803	MA142WA	DIODE	1	
D804	MA143A	DIODE	1	
IC801	AN2516S	IC	1	
L801	ELJPA220KB	COIL 22UH	1	
L802	ELH5L3101	COIL	1	
L804	VLQ0426J680	COIL 68UH	1	
L806	VLQ0426J330	COIL 33UH	1	
P801	VJP1597T	CONNECTOR (MALE) 4P	1	
P802	VJP3318A004	CONNECTOR (MALE) 4P	1	
P803	VJP1596T	CONNECTOR (MALE) 3P	1	
P804	VJP1229A	CONNECTOR (MALE) 2P	1	
Q802	2SD968A-S	TRANSISTOR	1	
Q803,04	2SB1218A	TRANSISTOR	2	
R801	ERJ6ENF4422	M.RESISTOR CH 1/10W 2.2K	1	
R802	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R804	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R806	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R807	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R808	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R809	ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R811	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R815	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R816	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R817	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R818	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R819	ERJ8GEYJ275	M.RESISTOR CH 1/8W 2.7M	1	
R820	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	1	
R821	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R823	ERJ6GEYJ8R2	M.RESISTOR CH 1/10W 8.2	1	
R829	ERJ6ENF4222	M.RESISTOR CH 1/10W 2.2K	1	
R833	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R834	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R835	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R836	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R840	ERJ8GEYJ106	M.RESISTOR CH 1/8W 10M	1	
R841	ERJ8GEYJ825	M.RESISTOR CH 1/8W 8.2M	1	
R842	ERJ8GEYJ106	M.RESISTOR CH 1/8W 10M	1	
R843	ERJ8GEYJ825	M.RESISTOR CH 1/8W 8.2M	1	
R844	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27	1	
R845	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R850	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R851	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R852	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R853	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
S801	VEE0C17	CRT SOCKET	1	
T801	ETF08L202A	FLYBACK TRANSFORMER	1	
VR801	VRV0292B221	VARIABLE RESISTOR	1	
VR803	EVMLSGA00BV6	TRIMMER POTENTIOMETERS	1	
VR804	VRV0292B474	VARIABLE RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP22276B	CCD FLEX. CARD C.B.A.		(RTL)
C292	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
C293	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C295	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
D291	MA153	DIODE	1	
PS291	VJS3500C012	CONNECTOR (FEMALE) 12P	1	
Q291	2SC2295	TRANSISTOR	1	
R291	ERJ6GEYJ560	M.RESISTOR CH 1/10W 56	1	
R292	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
		MISCELLANEOUS		
	VJB22276	FLEX. CARD	1	
■	VEP00Z89A	SMALL LCD DRIVE C.B.A.		(RTL)
C6601	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
FP6601	VJS3320B020	CONNECTOR (FEMALE) 20P	1	
FP6602	VJS3913B006B	CONNECTOR (FEMALE) 6P	1	
IC6601	BU9729K	IC	1	
R6601	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
■	VEK8577	MIC UNIT		NV-RX17EG/E/EN/ENH
				NV-RX14B
D6802	PH310	DIODE	1	
FP6801	VJS3913A012	CONNECTOR (FEMALE) 12P	1	
VR6801	VRV0294	MF VOLUME	1	
W6801	VWJ0121	FLAT CARD CABLE	1	
		MISCELLANEOUS		
	VEK8322	WIRE CABLE	1	
	VGQ3206	SENSOR HOLDER	1	
	VGU7720	MF KNOB	1	
	XQN16+BJ4	SCREW	1	
	VWJ12SW050LL	FLAT CARD CABLE	1	
■	VEK8578	MIC UNIT		NV-RX18EG/B/EN
C6801	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
D6801	BR2202S-20B1	DIODE	1	
D6802	PH310	DIODE	1	
D6805,06	MA165VT	DIODE	2	
FP6801	VJS3913A012	CONNECTOR (FEMALE) 12P	1	
IC6801	RPM6937-V4	IC	1	
VR6801	VRV0294	MF VOLUME	1	
W6801	VWJ0121	FLAT CARD CABLE	1	
		MISCELLANEOUS		
	VEK8322	WIRE CABLE	1	
	VGQ3206	SENSOR HOLDER	1	
	VGU7720	MF KNOB	1	
	XQN16+BJ4	SCREW	1	
	VWJ12SW050LL	FLAT CARD CABLE	1	
	VEUF8B040KK	CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks



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